

SEQUENCE LISTING **AP20 Rec'd PCT/PTO 21 FEB 2006**

<110> Harari, Daniel

<120> SPLICE VARIANTS OF ERB-B RECEPTOR LIGANDS, COMPOSITIONS AND USES THEREOF

<130> Harari-001

<160> 185

<170> PatentIn version 3.3

<210> 1

<211> 56

<212> PRT

<213> Homo sapiens

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Thr Gly Thr Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe
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Cys Val Asn Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro
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Ser Arg Tyr Leu Cys Lys Cys Gln Pro Gly Phe Thr Gly Ala Arg Cys
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Thr Glu Asn Val Pro Met Lys Val
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Thr Gly Thr Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe
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Cys Val Asn Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro
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Ser Arg Tyr Leu Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys
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Gln Asn Tyr Val Met Ala Ser Phe
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Ser Trp Ser Gly His Ala Arg Lys Cys Asn Glu Thr Ala Lys Ser Tyr
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Cys Val Asn Gly Gly Val Cys Tyr Tyr Ile Glu Gly Ile Asn Gln Leu
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Ser Cys Lys Cys Pro Asn Gly Phe Phe Gly Gln Arg Cys Leu Glu Lys
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Leu Pro Leu Arg Leu
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Ser Trp Ser Gly His Ala Arg Lys Cys Asn Glu Thr Ala Lys Ser Tyr
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Cys Val Asn Gly Gly Val Cys Tyr Tyr Ile Glu Gly Ile Asn Gln Leu
20 25 30

Ser Cys Lys Cys Pro Val Gly Tyr Thr Gly Asp Arg Cys Gln Gln Phe
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Ala Met Val Asn Phe
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Glu Arg Ser Glu His Phe Lys Pro Cys Arg Asp Lys Asp Leu Ala Tyr
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Cys Leu Asn Asp Gly Glu Cys Phe Val Ile Glu Thr Leu Thr Gly Ser
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His Lys His Cys Arg Cys Lys Glu Gly Tyr Gln Gly Val Arg Cys Asp
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Gln Phe Leu Pro Lys Thr Asp
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Met Pro Thr Asp His Glu Glu Pro Cys Gly Pro Ser His Lys Ser Phe
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Cys Leu Asn Gly Gly Leu Cys Tyr Val Ile Pro Thr Ile Pro Ser Pro

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Phe Cys Arg Cys Val Glu Asn Tyr Thr Gly Ala Arg Cys Glu Glu Val
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Phe Leu Pro Gly Ser
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Ser Val Arg Asn Ser Asp Ser Glu Cys Pro Leu Ser His Asp Gly Tyr
 1 5 10 15

Cys Leu His Asp Gly Val Cys Met Tyr Ile Glu Ala Leu Asp Lys Tyr
 20 25 30

Ala Cys Asn Cys Val Val Gly Tyr Ile Gly Glu Arg Cys Gln Tyr Arg
 35 40 45

Asp Leu Lys Trp Trp
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Ala Val Val Ser His Phe Asn Asp Cys Pro Asp Ser His Thr Gln Phe
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Cys Phe His Gly Thr Cys Arg Phe Leu Val Gln Glu Asp Lys Pro Ala
 20 25 30

Cys Val Cys His Ser Gly Tyr Val Gly Ala Arg Cys Glu His Ala Asp
 35 40 45

Leu Leu Ala Val
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Lys Arg Lys Gly His Phe Ser Arg Cys Pro Lys Gln Tyr Lys His Tyr
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Cys Ile Lys Gly Arg Cys Arg Phe Val Val Ala Glu Gln Thr Pro Ser
 20 25 30

Cys Val Cys Asp Glu Gly Tyr Ile Gly Ala Arg Cys Glu Arg Val Asp
 35 40 45

Leu Phe Tyr Leu
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Arg Asn Arg Lys Lys Lys Asn Pro Cys Asn Ala Glu Phe Gln Asn Phe
 1 5 10 15

Cys Ile His Gly Glu Cys Lys Tyr Ile Glu His Leu Glu Ala Val Thr
 20 25 30

Cys Lys Cys Gln Gln Glu Tyr Phe Gly Glu Arg Cys Gly Glu Lys Ser
 35 40 45

Met Lys Thr His
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Gly Leu Gly Lys Lys Arg Asp Pro Cys Leu Arg Lys Tyr Lys Asp Phe
 1 5 10 15

Cys Ile His Gly Glu Cys Lys Tyr Val Lys Glu Leu Arg Ala Pro Ser
 20 25 30

Cys Ile Cys His Pro Gly Tyr His Gly Glu Arg Cys His Gly Leu Ser
 35 40 45

Leu Pro Val Glu
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Val Ala Gln Val Ser Ile Thr Lys Cys Ser Ser Asp Met Asn Gly Tyr
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Cys Leu His Gly Gln Cys Ile Tyr Leu Val Asp Met Ser Gln Asn Tyr
 20 25 30

Cys Arg Cys Glu Val Gly Tyr Thr Gly Val Arg Cys Glu His Phe Phe
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Leu Thr Val His
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<400> 13

Val Ala Leu Lys Phe Ser His Pro Cys Leu Glu Asp His Asn Ser Tyr
 1 5 10 15

Cys Ile Asn Gly Ala Cys Ala Phe His His Glu Leu Lys Gln Ala Ile
 20 25 30

Cys Arg Cys Phe Thr Gly Tyr Thr Gly Gln Arg Cys Glu His Leu Thr
 35 40 45

Leu Thr Ser Tyr
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Thr Gly Thr Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe
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Cys Val Asn Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro
 20 25 30

Ser Arg Tyr Leu Cys Lys Cys Gln Pro Gly Phe Thr Gly Ala Arg Cys
 35 40 45

Thr Glu Asn Val Pro Met Lys Val Gln
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Cys Val Asn Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro
 20 25 30

Ser Arg Tyr Leu Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys
 35 40 45

Gln Asn Tyr Val Met Ala Ser Phe Tyr
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<400> 16

Ser Trp Ser Gly His Ala Arg Lys Cys Asn Glu Thr Ala Lys Ser Tyr
 1 5 10 15

Cys Val Asn Gly Gly Val Cys Tyr Tyr Ile Glu Gly Ile Asn Gln Leu
 20 25 30

Ser Cys Lys Cys Pro Asn Gly Phe Phe Gly Gln Arg Cys Leu Glu Lys
 35 40 45

Leu Pro Leu Arg Leu Tyr
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<210> 17
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<400> 17

Ser Trp Ser Gly His Ala Arg Lys Cys Asn Glu Thr Ala Lys Ser Tyr
 1 5 10 15

Cys Val Asn Gly Gly Val Cys Tyr Tyr Ile Glu Gly Ile Asn Gln Leu
 20 25 30

Ser Cys Lys Cys Pro Val Gly Tyr Thr Gly Asp Arg Cys Gln Gln Phe
 35 40 45

Ala Met Val Asn Phe Tyr
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<400> 18

Glu Arg Ser Glu His Phe Lys Pro Cys Arg Asp Lys Asp Leu Ala Tyr
 1 5 10 15

Cys Leu Asn Asp Gly Glu Cys Phe Val Ile Glu Thr Leu Thr Gly Ser
 20 25 30

His Lys His Cys Arg Cys Lys Glu Gly Tyr Gln Gly Val Arg Cys Asp

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Gln Phe Leu Pro Lys Thr Asp
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<400> 19

Met Pro Thr Asp His Glu Glu Pro Cys Gly Pro Ser His Lys Ser Phe
1 5 10 15

Cys Leu Asn Gly Gly Leu Cys Tyr Val Ile Pro Thr Ile Pro Ser Pro
20 25 30

Phe Cys Arg Cys Val Glu Asn Tyr Thr Gly Ala Arg Cys Glu Glu Val
35 40 45

Phe Leu Pro Gly Ser Ser
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Ser Val Arg Asn Ser Asp Ser Glu Cys Pro Leu Ser His Asp Gly Tyr
1 5 10 15

Cys Leu His Asp Gly Val Cys Met Tyr Ile Glu Ala Leu Asp Lys Tyr
20 25 30

Ala Cys Asn Cys Val Val Gly Tyr Ile Gly Glu Arg Cys Gln Tyr Arg
35 40 45

Asp Leu Lys Trp Trp Glu
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<210> 21
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Ala Val Val Ser His Phe Asn Asp Cys Pro Asp Ser His Thr Gln Phe
1 5 10 15

Cys Phe His Gly Thr Cys Arg Phe Leu Val Gln Glu Asp Lys Pro Ala
20 25 30

Cys Val Cys His Ser Gly Tyr Val Gly Ala Arg Cys Glu His Ala Asp
35 40 45

Leu Leu Ala Val Val
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<210> 22
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Lys Arg Lys Gly His Phe Ser Arg Cys Pro Lys Gln Tyr Lys His Tyr
1 5 10 15

Cys Ile Lys Gly Arg Cys Arg Phe Val Val Ala Glu Gln Thr Pro Ser
20 25 30

Cys Val Cys Asp Glu Gly Tyr Ile Gly Ala Arg Cys Glu Arg Val Asp
35 40 45

Leu Phe Tyr Leu Arg
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<210> 23
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<400> 23

Arg Asn Arg Lys Lys Lys Asn Pro Cys Asn Ala Glu Phe Gln Asn Phe
1 5 10 15

Cys Ile His Gly Glu Cys Lys Tyr Ile Glu His Leu Glu Ala Val Thr
20 25 30

Cys Lys Cys Gln Gln Glu Tyr Phe Gly Glu Arg Cys Gly Glu Lys Ser
35 40 45

Met Lys Thr His Ser
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<210> 24
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Gly Leu Gly Lys Lys Arg Asp Pro Cys Leu Arg Lys Tyr Lys Asp Phe
1 5 10 15

Cys Ile His Gly Glu Cys Lys Tyr Val Lys Glu Leu Arg Ala Pro Ser
20 25 30

Cys Ile Cys His Pro Gly Tyr His Gly Glu Arg Cys His Gly Leu Ser
35 40 45

Leu Pro Val Glu Asn
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Val Ala Gln Val Ser Ile Thr Lys Cys Ser Ser Asp Met Asn Gly Tyr
1 5 10 15

Cys Leu His Gly Gln Cys Ile Tyr Leu Val Asp Met Ser Gln Asn Tyr
20 25 30

Cys Arg Cys Glu Val Gly Tyr Thr Gly Val Arg Cys Glu His Phe Phe
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Leu Thr Val His Gln
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<400> 26

Val Ala Leu Lys Phe Ser His Pro Cys Leu Glu Asp His Asn Ser Tyr
1 5 10 15

Cys Ile Asn Gly Ala Cys Ala Phe His His Glu Leu Lys Gln Ala Ile
20 25 30

Cys Arg Cys Phe Thr Gly Tyr Thr Gly Gln Arg Cys Glu His Leu Thr
35 40 45

Leu Thr Ser Tyr Ala
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<210> 27
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<213> Homo sapiens

<400> 27

Cys Lys Leu Arg Lys Gly Asn Cys Ser Ser Thr Val Cys Gly Gln Asp
1 5 10 15

Leu Gln Ser His Leu Cys Met Cys Ala Glu Gly Tyr Ala Leu Ser Arg
20 25 30

Asp Arg Lys Tyr Cys
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<400> 28

Cys Ala Phe Trp Asn His Gly Cys Thr Leu Gly Cys Lys Asn Thr Pro
 1 5 10 15

Gly Ser Tyr Tyr Cys Thr Cys Pro Val Gly Phe Val Leu Leu Pro Asp
 20 25 30

Gly Lys Arg Cys
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<210> 29
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<400> 29

Cys Pro Arg Asn Val Ser Glu Cys Ser His Asp Cys Val Leu Thr Ser
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Glu Gly Pro Leu Cys Phe Cys Pro Glu Gly Ser Val Leu Glu Arg Asp
 20 25 30

Gly Lys Thr Cys
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Cys Ser Ser Pro Asp Asn Gly Gly Cys Ser Gln Leu Cys Val Pro Leu
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Ser Pro Val Ser Trp Glu Cys Asp Cys Phe Pro Gly Tyr Asp Leu Gln
 20 25 30

Leu Asp Glu Lys Ser Cys
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<400> 31

Cys Leu Tyr Gln Asn Gly Gly Cys Glu His Ile Cys Lys Lys Arg Leu
 1 5 10 15

Gly Thr Ala Trp Cys Ser Cys Arg Glu Gly Phe Met Lys Ala Ser Asp
 20 25 30

Gly Lys Thr Cys
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Cys Ala Pro Val Gly Cys Ser Met Tyr Ala Arg Cys Ile Ser Glu Gly
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Glu Asp Ala Thr Cys Gln Cys Leu Lys Gly Phe Ala Gly Asp Gly Lys
20 25 30

Leu Cys

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Cys Glu Met Gly Val Pro Val Cys Pro Pro Ala Ser Ser Lys Cys Ile
1 5 10 15

Asn Thr Glu Gly Gly Tyr Val Cys Arg Cys Ser Glu Gly Tyr Gln Gly
20 25 30

Asp Gly Ile His Cys
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Cys Gln Leu Gly Val His Ser Cys Gly Glu Asn Ala Ser Cys Thr Asn
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Thr Glu Gly Gly Tyr Thr Cys Met Cys Ala Gly Arg Leu Ser Glu Pro
20 25 30

Gly Leu Ile Cys
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Cys Pro Leu Ser His Asp Gly Tyr Cys Leu His Asp Gly Val Cys Met
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Tyr Ile Glu Ala Leu Asp Lys Tyr Ala Cys Asn Cys Val Val Gly Tyr
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Ile Gly Glu Arg Cys
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Cys Ser Gln Pro Gly Glu Thr Cys Leu Asn Gly Gly Lys Cys Glu Ala
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Ala Asn Gly Thr Glu Ala Cys Val Cys Gly Gly Ala Phe Val Gly Pro
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Arg Cys

<210> 37
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<400> 37

Cys Leu Ser Thr Pro Cys Lys Asn Ala Gly Thr Cys His Val Val Asp
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Arg Arg Gly Val Ala Asp Tyr Ala Cys Ser Cys Ala Leu Gly Phe Ser
 20 25 30

Gly Pro Leu Cys
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<210> 38
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<400> 38

Cys Leu Thr Asn Pro Cys Arg Asn Gly Gly Thr Cys Asp Leu Leu Thr
 1 5 10 15

Leu Thr Glu Tyr Lys Cys Arg Cys Pro Pro Gly Trp Ser Gly Lys Ser
 20 25 30

Cys

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Cys Ala Ser Asn Pro Cys Ala Asn Gly Gly Gln Cys Leu Pro Phe Glu
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Ala Ser Tyr Ile Cys His Cys Pro Pro Ser Phe His Gly Pro Thr Cys
 20 25 30

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Cys Gly Gln Lys Pro Arg Leu Cys Arg His Gly Gly Thr Cys His Asn
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Glu Val Gly Ser Tyr Arg Cys Val Cys Arg Ala Thr His Thr Gly Pro
 20 25 30

Asn Cys

<210> 41
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<400> 41

Cys Ser Pro Ser Pro Cys Gln Asn Gly Gly Thr Cys Arg Pro Thr Gly
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Asp Val Thr His Glu Cys Ala Cys Leu Pro Gly Phe Thr Gly Gln Asn
 20 25 30

Cys

<210> 42
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Cys Pro Gly Asn Asn Cys Lys Asn Gly Gly Ala Cys Val Asp Gly Val
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Asn Thr Tyr Asn Cys Pro Cys Pro Pro Glu Trp Thr Gly Gln Tyr Cys
 20 25 30

<210> 43
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<213> Homo sapiens

<400> 43

Cys Gln Leu Met Pro Asn Ala Cys Gln Asn Gly Gly Thr Cys His Asn
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Thr His Gly Gly Tyr Asn Cys Val Cys Val Asn Gly Trp Thr Gly Glu
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Asp Cys

<210> 44

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<213> Homo sapiens

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Cys Ala Ser Ala Ala Cys Phe His Gly Ala Thr Cys His Asp Arg Val
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Ala Ser Phe Tyr Cys Glu Cys Pro His Gly Arg Thr Gly Leu Leu Cys
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<213> Homo sapiens

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Cys Ile Ser Asn Pro Cys Asn Glu Gly Ser Asn Cys Asp Thr Asn Pro
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Val Asn Gly Lys Ala Ile Cys Thr Cys Pro Ser Gly Tyr Thr Gly Pro
 20 25 30

Ala Cys

<210> 46

<211> 34

<212> PRT

<213> Homo sapiens

<400> 46

Cys Ser Leu Gly Ala Asn Pro Cys Glu His Ala Gly Lys Cys Ile Asn
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Thr Leu Gly Ser Phe Glu Cys Gln Cys Leu Gln Gly Tyr Thr Gly Pro
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Arg Cys

<210> 47

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Cys Val Ser Asn Pro Cys Gln Asn Asp Ala Thr Cys Leu Asp Gln Ile
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Gly Glu Phe Gln Cys Met Cys Met Pro Gly Tyr Glu Gly Val His Cys
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<210> 48
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<400> 48

Cys Ala Ser Ser Pro Cys Leu His Asn Gly Arg Cys Leu Asp Lys Ile
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Asn Glu Phe Gln Cys Glu Cys Pro Thr Gly Phe Thr Gly His Leu Cys
 20 25 30

<210> 49
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Cys Ala Ser Thr Pro Cys Lys Asn Gly Ala Lys Cys Leu Asp Gly Pro
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Asn Thr Tyr Thr Cys Val Cys Thr Glu Gly Tyr Thr Gly Thr His Cys
 20 25 30

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Cys Asp Pro Asp Pro Cys His Tyr Gly Ser Cys Lys Asp Gly Val Ala
 1 5 10 15

Thr Phe Thr Cys Leu Cys Arg Pro Gly Tyr Thr Gly His His Cys
 20 25 30

<210> 51
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<400> 51

Cys Ser Ser Gln Pro Cys Arg Leu Arg Gly Thr Cys Gln Asp Pro Asp
 1 5 10 15

Asn Ala Tyr Leu Cys Phe Cys Leu Lys Gly Thr Thr Gly Pro Asn Cys
 20 25 30

<210> 52
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Cys Ala Ser Ser Pro Cys Asp Ser Gly Thr Cys Leu Asp Lys Ile Asp
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Gly Tyr Glu Cys Ala Cys Glu Pro Gly Tyr Thr Gly Ser Met Cys
 20 25 30

<210> 53
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<400> 53

Cys Ala Gly Asn Pro Cys His Asn Gly Gly Thr Cys Glu Asp Gly Ile
 1 5 10 15

Asn Gly Phe Thr Cys Arg Cys Pro Glu Gly Tyr His Asp Pro Thr Cys
 20 25 30

<210> 54
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<400> 54

Cys Asn Ser Asn Pro Cys Val His Gly Ala Cys Arg Asp Ser Leu Asn
 1 5 10 15

Gly Tyr Lys Cys Asp Cys Asp Pro Gly Trp Ser Gly Thr Asn Cys
 20 25 30

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Cys Glu Ser Asn Pro Cys Val Asn Gly Gly Thr Cys Lys Asp Met Thr
 1 5 10 15

Ser Gly Ile Val Cys Thr Cys Arg Glu Gly Phe Ser Gly Pro Asn Cys
 20 25 30

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Cys Ala Ser Asn Pro Cys Leu Asn Lys Gly Thr Cys Ile Asp Asp Val
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Ala Gly Tyr Lys Cys Asn Cys Leu Leu Pro Tyr Thr Gly Ala Thr Cys
20 25 30

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<400> 57

Cys Ala Pro Ser Pro Cys Arg Asn Gly Gly Glu Cys Arg Gln Ser Glu
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Asp Tyr Glu Ser Phe Ser Cys Val Cys Pro Thr Ala Gly Ala Lys Gly
20 25 30

Gln Thr Cys
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Cys Val Leu Ser Pro Cys Arg His Gly Ala Ser Cys Gln Asn Thr His
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Gly Xaa Tyr Arg Cys His Cys Gln Ala Gly Tyr Ser Gly Arg Asn Cys
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<210> 59
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<213> Homo sapiens

<400> 59

Cys Arg Pro Asn Pro Cys His Asn Gly Gly Ser Cys Thr Asp Gly Ile
1 5 10 15

Asn Thr Ala Phe Cys Asp Cys Leu Pro Gly Phe Arg Gly Thr Phe Cys
20 25 30

<210> 60
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Cys Ala Ser Asp Pro Cys Arg Asn Gly Ala Asn Cys Thr Asp Cys Val
 1 5 10 15

Asp Ser Tyr Thr Cys Thr Cys Pro Ala Gly Phe Ser Gly Ile His Cys
 20 25 30

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<400> 61

Cys Thr Glu Ser Ser Cys Phe Asn Gly Gly Thr Cys Val Asp Gly Ile
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Asn Ser Phe Thr Cys Leu Cys Pro Pro Gly Phe Thr Gly Ser Tyr Cys
 20 25 30

<210> 62
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<400> 62

Cys Asp Ser Arg Pro Cys Leu Leu Gly Gly Thr Cys Gln Asp Gly Arg
 1 5 10 15

Gly Leu His Arg Cys Thr Cys Pro Gln Gly Tyr Thr Gly Pro Asn Cys
 20 25 30

<210> 63
 <211> 32
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<400> 63

Cys Asp Ser Ser Pro Cys Lys Asn Gly Gly Lys Cys Trp Gln Thr His
 1 5 10 15

Thr Gln Tyr Arg Cys Glu Cys Pro Ser Gly Trp Thr Gly Leu Tyr Cys
 20 25 30

<210> 64
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<400> 64

Cys Glu Val Ala Ala Gln Arg Gln Gly Val Asp Val Ala Arg Leu Cys
 1 5 10 15

Gln His Gly Gly Leu Cys Val Asp Ala Gly Asn Thr His His Cys Arg
 20 25 30

Cys Gln Ala Gly Tyr Thr Gly Ser Tyr Cys
 Page 18

35

40

<210> 65
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<400> 65

Cys Ser Pro Ser Pro Cys Gln Asn Gly Ala Thr Cys Thr Asp Tyr Leu
 1 5 10 15

Gly Gly Tyr Ser Cys Lys Cys Val Ala Gly Tyr His Gly Val Asn Cys
 20 25 30

<210> 66
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<400> 66

Cys Leu Ser His Pro Cys Gln Asn Gly Gly Thr Cys Leu Asp Leu Pro
 1 5 10 15

Asn Thr Tyr Lys Cys Ser Cys Pro Arg Gly Thr Gln Gly Val His Cys
 20 25 30

<210> 67
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 <212> PRT
 <213> Mus musculus

<400> 67

Cys Asn Pro Pro Val Asp Pro Val Ser Arg Ser Pro Lys Cys Phe Asn
 1 5 10 15

Asn Gly Thr Cys Val Asp Gln Val Gly Gly Tyr Ser Cys Thr Cys Pro
 20 25 30

Pro Gly Phe Val Gly Glu Arg Cys
 35 40

<210> 68
 <211> 34
 <212> PRT
 <213> Homo sapiens

<400> 68

Cys Leu Ser Asn Pro Cys Asp Ala Arg Gly Thr Gln Asn Cys Val Gln
 1 5 10 15

Arg Val Asn Asp Phe His Cys Glu Cys Arg Ala Gly His Thr Gly Arg
 20 25 30

Arg Cys

<210> 69
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<400> 69

Cys Lys Gly Lys Pro Cys Lys Asn Gly Gly Thr Cys Ala Val Ala Ser
 1 5 10 15

Asn Thr Ala Arg Gly Phe Ile Cys Lys Cys Pro Ala Gly Phe Glu Gly
 20 25 30

Ala Thr Cys
 35

<210> 70
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<400> 70

Cys Gly Ser Leu Arg Cys Leu Asn Gly Gly Thr Cys Ile Ser Gly Pro
 1 5 10 15

Arg Ser Pro Thr Cys Leu Cys Leu Gly Pro Phe Thr Gly Pro Glu Cys
 20 25 30

<210> 71
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 <212> PRT
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<400> 71

Cys Leu Gly Gly Asn Pro Cys Tyr Asn Gln Gly Thr Cys Glu Pro Thr
 1 5 10 15

Ser Glu Ser Pro Phe Tyr Arg Cys Leu Cys Pro Ala Lys Phe Asn Gly
 20 25 30

Leu Leu Cys
 35

<210> 72
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<400> 72

Cys Pro Asp Ser His Thr Gln Phe Cys Phe His Gly Thr Cys Arg Phe
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Leu Val Gln Glu Asp Lys Pro Ala Cys Val Cys His Ser Gly Tyr Val
 20 25 30

Gly Ala Arg Cys

35

<210> 73
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<400> 73

Thr Gly Thr Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe
 1 5 10 15

Cys Val Asn Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro
 20 25 30

Ser Arg Tyr Leu Cys Lys
 35

<210> 74
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<400> 74

Ser Trp Ser Gly His Ala Arg Lys Cys Asn Glu Thr Ala Lys Ser Tyr
 1 5 10 15

Cys Val Asn Gly Gly Val Cys Tyr Tyr Ile Glu Gly Ile Asn Gln Leu
 20 25 30

Ser Cys Lys
 35

<210> 75
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<400> 75

Glu Arg Ser Glu His Phe Lys Pro Cys Arg Asp Lys Asp Leu Ala Tyr
 1 5 10 15

Cys Leu Asn Asp Gly Glu Cys Phe Val Ile Glu Thr Leu Thr Gly Ser
 20 25 30

His Lys His Cys Arg
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<210> 76
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<400> 76

Met Pro Thr Asp His Glu Glu Pro Cys Gly Pro Ser His Lys Ser Phe
 1 5 10 15

Cys Leu Asn Gly Gly Leu Cys Tyr Val Ile Pro Thr Ile Pro Ser Pro
 20 25 30

Phe Cys Arg
 35

<210> 77
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 77

Ser Val Arg Asn Ser Asp Ser Glu Cys Pro Leu Ser His Asp Gly Tyr
 1 5 10 15

Cys Leu His Asp Gly Val Cys Met Tyr Ile Glu Ala Leu Asp Lys Tyr
 20 25 30

Ala Cys Lys
 35

<210> 78
 <211> 34
 <212> PRT
 <213> Homo sapiens

<400> 78

Ala Val Val Ser His Phe Asn Asp Cys Pro Asp Ser His Thr Gln Phe
 1 5 10 15

Cys Phe His Gly Thr Cys Arg Phe Leu Val Gln Glu Asp Lys Pro Ala
 20 25 30

Cys Val

<210> 79
 <211> 34
 <212> PRT
 <213> Homo sapiens

<400> 79

Lys Arg Lys Gly His Phe Ser Arg Cys Pro Lys Gln Tyr Lys His Tyr
 1 5 10 15

Cys Ile Lys Gly Arg Cys Arg Phe Val Val Ala Glu Gln Thr Pro Ser
 20 25 30

Cys Val

<210> 80
 <211> 34
 <212> PRT
 <213> Homo sapiens

<400> 80

Arg Asn Arg Lys Lys Lys Asn Pro Cys Asn Ala Glu Phe Gln Asn Phe
 1 5 10 15

Cys Ile His Gly Glu Cys Lys Tyr Ile Glu His Leu Glu Ala Val Thr
 20 25 30

Cys Lys

<210> 81

<211> 34

<212> PRT

<213> Homo sapiens

<400> 81

Gly Leu Gly Lys Lys Arg Asp Pro Cys Leu Arg Lys Tyr Lys Asp Phe
 1 5 10 15

Cys Ile His Gly Glu Cys Lys Tyr Val Lys Glu Leu Arg Ala Pro Ser
 20 25 30

Cys Met

<210> 82

<211> 34

<212> PRT

<213> Homo sapiens

<400> 82

Val Ala Gln Val Ser Ile Thr Lys Cys Ser Ser Asp Met Asn Gly Tyr
 1 5 10 15

Cys Leu His Gly Gln Cys Ile Tyr Leu Val Asp Met Ser Gln Asn Tyr
 20 25 30

Cys Arg

<210> 83

<211> 34

<212> PRT

<213> Mus musculus

<400> 83

Val Ala Leu Lys Phe Ser His Pro Cys Leu Glu Asp His Asn Ser Tyr
 1 5 10 15

Cys Ile Asn Gly Ala Cys Ala Phe His His Glu Leu Lys Gln Ala Ile
 20 25 30

Cys Arg

<210> 84
 <211> 34
 <212> PRT
 <213> Homo sapiens

<400> 84

Ile Ala Leu Lys Phe Ser His Leu Cys Leu Glu Asp His Asn Ser Tyr
 1 5 10 15

Cys Ile Asn Gly Ala Cys Ala Phe His His Glu Leu Glu Lys Ala Ile
 20 25 30

Cys Arg

<210> 85
 <211> 360
 <212> PRT
 <213> Homo sapiens

<400> 85

Thr Ala Arg Gly Ala Gly Glu Glu Phe Pro Glu Thr Cys Trp Asn Ser
 1 5 10 15

Gly Leu Ala Arg Arg Pro Gly Ala Glu Arg Arg Arg Leu Pro Asp Asp
 20 25 30

Gly Ser Val Ser Arg Thr Val Ile Thr Ser Pro Arg Ser Gly Cys Glu
 35 40 45

Gly Ala Gly Gln Arg Pro Gly Arg Glu Pro Pro Ala Ala Gly Pro Ile
 50 55 60

Asp Asp Phe Pro Gly Arg Gln Glu Gln Pro Arg Glu Pro Gly Arg Ala
 65 70 75 80

Pro Val Pro Gly Gly Arg Thr Ala Arg Arg Val Arg Ala Ala Leu Pro
 85 90 95

Ala Gly Asn Gly Arg Arg Pro Arg Ala Ala Arg Ala Pro Gln Arg Gly
 100 105 110

Arg Ser Leu Ser Pro Ser Arg Asp Lys Leu Phe Pro Asn Pro Ile Arg
 115 120 125

Ala Leu Gly Pro Asn Ser Pro Ala Pro Arg Ala Val Arg Val Glu Arg
 130 135 140

Ser Val Ser Gly Glu Met Ser Glu Arg Lys Glu Gly Arg Gly Lys Gly
 145 150 155 160

Lys Gly Lys Lys Lys Glu Arg Gly Ser Gly Lys Lys Pro Glu Ser Ala
 165 170 175

Ala Gly Ser Gln Ser Pro Ala Leu Pro Pro Gln Leu Lys Glu Met Lys
180 185 190

Ser Gln Glu Ser Ala Ala Gly Ser Lys Leu Val Leu Arg Cys Glu Thr
195 200 205

Ser Ser Glu Tyr Ser Ser Leu Arg Phe Lys Trp Phe Lys Asn Gly Asn
210 215 220

Glu Leu Asn Arg Lys Asn Lys Pro Gln Asn Ile Lys Ile Gln Lys Lys
225 230 235 240

Pro Gly Lys Ser Glu Leu Arg Ile Asn Lys Ala Ser Leu Ala Asp Ser
245 250 255

Gly Glu Tyr Met Cys Lys Val Ile Ser Lys Leu Gly Asn Asp Ser Ala
260 265 270

Ser Ala Asn Ile Thr Ile Val Glu Ser Asn Glu Ile Ile Thr Gly Met
275 280 285

Pro Ala Ser Thr Glu Gly Ala Tyr Val Ser Ser Glu Ser Pro Ile Arg
290 295 300

Ile Ser Val Ser Thr Glu Gly Ala Asn Thr Ser Ser Ser Thr Ser Thr
305 310 315 320

Ser Thr Thr Gly Thr Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys
325 330 335

Thr Phe Cys Val Asn Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser
340 345 350

Asn Pro Ser Arg Tyr Leu Cys Lys
355 360

<210> 86

<211> 43

<212> PRT

<213> Homo sapiens

<400> 86

Thr Ser Thr Ser Thr Thr Gly Thr Ser His Leu Val Lys Cys Ala Glu
1 5 10 15

Lys Glu Lys Thr Phe Cys Val Asn Gly Gly Glu Cys Phe Met Val Lys
20 25 30

Asp Leu Ser Asn Pro Ser Arg Tyr Leu Cys Lys
35 40

<210> 87

<211> 43
 <212> PRT
 <213> Homo sapiens

<400> 87

Thr Ser Thr Ser Thr Thr Gly Thr Ser His Leu Val Lys Cys Ala Glu
 1 5 10 15

Lys Glu Lys Thr Phe Cys Val Asn Gly Gly Glu Cys Phe Met Val Lys
 20 25 30

Asp Leu Ser Asn Pro Ser Arg Tyr Leu Cys Lys
 35 40

<210> 88
 <211> 211
 <212> PRT
 <213> Homo sapiens

<400> 88

Met Ser Glu Arg Lys Glu Gly Arg Gly Lys Gly Lys Gly Lys Lys
 1 5 10 15

Glu Arg Gly Ser Gly Lys Lys Pro Glu Ser Ala Ala Gly Ser Gln Ser
 20 25 30

Pro Ala Leu Pro Pro Gln Leu Lys Glu Met Lys Ser Gln Glu Ser Ala
 35 40 45

Ala Gly Ser Lys Leu Val Leu Arg Cys Glu Thr Ser Ser Glu Tyr Ser
 50 55 60

Ser Leu Arg Phe Lys Trp Phe Lys Asn Gly Asn Glu Leu Asn Arg Lys
 65 70 75 80

Asn Lys Pro Gln Asn Ile Lys Ile Gln Lys Lys Pro Gly Lys Ser Glu
 85 90 95

Leu Arg Ile Asn Lys Ala Ser Leu Ala Asp Ser Gly Glu Tyr Met Cys
 100 105 110

Lys Val Ile Ser Lys Leu Gly Asn Asp Ser Ala Ser Ala Asn Ile Thr
 115 120 125

Ile Val Glu Ser Asn Glu Ile Ile Thr Gly Met Pro Ala Ser Thr Glu
 130 135 140

Gly Ala Tyr Val Ser Ser Glu Ser Pro Ile Arg Ile Ser Val Ser Thr
 145 150 155 160

Glu Gly Ala Asn Thr Ser Ser Ser Thr Ser Thr Ser Thr Thr Gly Thr
 165 170 175

Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys Val Asn

180 185 190
 Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro Ser Arg Tyr
 195 200 205
 Leu Cys Lys
 210
 <210> 89
 <211> 211
 <212> PRT
 <213> Homo sapiens
 <400> 89
 Met Ser Glu Arg Lys Glu Gly Arg Gly Lys Gly Lys Gly Lys Lys Lys
 1 5 10 15
 Glu Arg Gly Ser Gly Lys Lys Pro Glu Ser Ala Ala Gly Ser Gln Ser
 20 25 30
 Pro Ala Leu Pro Pro Gln Leu Lys Glu Met Lys Ser Gln Glu Ser Ala
 35 40 45
 Ala Gly Ser Lys Leu Val Leu Arg Cys Glu Thr Ser Ser Glu Tyr Ser
 50 55 60
 Ser Leu Arg Phe Lys Trp Phe Lys Asn Gly Asn Glu Leu Asn Arg Lys
 65 70 75 80
 Asn Lys Pro Gln Asn Ile Lys Ile Gln Lys Lys Pro Gly Lys Ser Glu
 85 90 95
 Leu Arg Ile Asn Lys Ala Ser Leu Ala Asp Ser Gly Glu Tyr Met Cys
 100 105 110
 Lys Val Ile Ser Lys Leu Gly Asn Asp Ser Ala Ser Ala Asn Ile Thr
 115 120 125
 Ile Val Glu Ser Asn Glu Ile Ile Thr Gly Met Pro Ala Ser Thr Glu
 130 135 140
 Gly Ala Tyr Val Ser Ser Glu Ser Pro Ile Arg Ile Ser Val Ser Thr
 145 150 155 160
 Glu Gly Ala Asn Thr Ser Ser Ser Thr Ser Thr Ser Thr Thr Gly Thr
 165 170 175
 Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys Val Asn
 180 185 190
 Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro Ser Arg Tyr
 195 200 205

Leu Cys Lys
210

<210> 90
<211> 211
<212> PRT
<213> Mus musculus

<400> 90

Met Ser Glu Arg Lys Glu Gly Arg Gly Lys Gly Lys Gly Lys Lys Lys
1 5 10 15

Asp Arg Gly Ser Arg Gly Lys Pro Ala Pro Ala Glu Gly Asp Pro Ser
20 25 30

Pro Ala Leu Pro Pro Arg Leu Lys Glu Met Lys Ser Gln Glu Ser Ala
35 40 45

Ala Gly Ser Lys Leu Val Leu Arg Cys Glu Thr Ser Ser Glu Tyr Ser
50 55 60

Ser Leu Arg Phe Lys Trp Phe Lys Asn Gly Asn Glu Leu Asn Arg Arg
65 70 75 80

Asn Lys Pro Gln Asn Val Lys Ile Gln Lys Lys Pro Gly Lys Ser Glu
85 90 95

Leu Arg Ile Asn Lys Ala Ser Leu Ala Asp Ser Gly Glu Tyr Met Cys
100 105 110

Lys Val Ile Ser Lys Leu Gly Asn Asp Ser Ala Ser Ala Asn Ile Thr
115 120 125

Ile Val Glu Ser Asn Asp Leu Thr Thr Gly Met Ser Ala Ser Thr Glu
130 135 140

Arg Pro Tyr Val Ser Ser Glu Ser Pro Ile Arg Ile Ser Val Ser Thr
145 150 155 160

Glu Gly Ala Asn Thr Ser Ser Ser Thr Ser Thr Ser Thr Thr Gly Thr
165 170 175

Ser His Leu Ile Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys Val Asn
180 185 190

Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro Ser Arg Tyr
195 200 205

Leu Cys Lys
210

<210> 91
<211> 211
<212> PRT

<213> Mus musculus

<400> 91

Met Ser Glu Arg Lys Glu Gly Arg Gly Lys Gly Lys Gly Lys Lys
 1 5 10 15

Asp Arg Gly Ser Arg Gly Lys Pro Ala Pro Ala Glu Gly Asp Pro Ser
 20 25 30

Pro Ala Leu Pro Pro Arg Leu Lys Glu Met Lys Ser Gln Glu Ser Ala
 35 40 45

Ala Gly Ser Lys Leu Val Leu Arg Cys Glu Thr Ser Ser Glu Tyr Ser
 50 55 60

Ser Leu Arg Phe Lys Trp Phe Lys Asn Gly Asn Glu Leu Asn Arg Arg
 65 70 75 80

Asn Lys Pro Gln Asn Val Lys Ile Gln Lys Lys Pro Gly Lys Ser Glu
 85 90 95

Leu Arg Ile Asn Lys Ala Ser Leu Ala Asp Ser Gly Glu Tyr Met Cys
 100 105 110

Lys Val Ile Ser Lys Leu Gly Asn Asp Ser Ala Ser Ala Asn Ile Thr
 115 120 125

Ile Val Glu Ser Asn Asp Leu Thr Thr Gly Met Ser Ala Ser Thr Glu
 130 135 140

Arg Pro Tyr Val Ser Ser Glu Ser Pro Ile Arg Ile Ser Val Ser Thr
 145 150 155 160

Glu Gly Ala Asn Thr Ser Ser Ser Thr Ser Thr Ser Thr Thr Gly Thr
 165 170 175

Ser His Leu Ile Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys Val Asn
 180 185 190

Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro Ser Arg Tyr
 195 200 205

Leu Cys Lys
 210

<210> 92

<211> 73

<212> PRT

<213> Mus musculus

<400> 92

Met Ser Ala Ser Thr Glu Arg Pro Tyr Val Ser Ser Glu Ser Pro Ile
 1 5 10 15

Arg Ile Ser Val Ser Thr Glu Gly Ala Asn Thr Ser Ser Ser Thr Ser
20 25 30

Thr Ser Thr Thr Gly Thr Ser His Leu Ile Lys Cys Ala Glu Lys Glu
35 40 45

Lys Thr Phe Cys Val Asn Gly Gly Glu Cys Phe Met Val Lys Asp Leu
50 55 60

Ser Asn Pro Ser Arg Tyr Leu Cys Lys
65 70

<210> 93
<211> 137
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<222> (113)..(113)
<223> X = undefined amino acid

<400> 93

Thr Arg Pro Lys Leu Lys Lys Met Lys Ser Gln Thr Gly Gln Val Gly
1 5 10 15

Glu Lys Gln Ser Leu Lys Cys Glu Ala Ala Ala Ile Asn Pro Gln Pro
20 25 30

Ser Tyr Arg Trp Phe Lys Asp Gly Lys Glu Leu Asn Arg Ser Arg Asp
35 40 45

Ile Arg Ile Lys Tyr Gly Asn Gly Arg Lys Asn Ser Arg Leu Gln Phe
50 55 60

Asn Lys Val Lys Val Glu Asp Ala Gly Glu Tyr Val Cys Glu Ala Glu
65 70 75 80

Asn Ile Leu Gly Lys Asp Thr Val Arg Gly Arg Leu Tyr Val Asn Ser
85 90 95

Val Thr Thr Thr Leu Ser Ser Trp Ser Gly His Ala Gly Lys Cys Asn
100 105 110

Xaa Thr Ala Lys Ser Tyr Cys Val Asn Gly Gly Val Cys Tyr Tyr Ile
115 120 125

Glu Gly Ile Asn Gln Leu Ser Cys Lys
130 135

<210> 94
<211> 73
<212> PRT
<213> Homo sapiens

<400> 94

Ser Ser Ser Ser Phe Asp Val Gly His Glu Gly Asp Asp Ser Trp Gly
 1 5 10 15

Leu Gly Ile Val Ser Val Arg His Trp His Met Ser Leu Ile Pro Ser
 20 25 30

Val Ser Thr Thr Leu Ser Ser Trp Ser Gly His Ala Arg Lys Cys Asn
 35 40 45

Glu Thr Ala Lys Ser Tyr Cys Val Asn Gly Gly Val Cys Tyr Tyr Ile
 50 55 60

Glu Gly Ile Asn Gln Leu Ser Cys Lys
 65 70

<210> 95

<211> 78

<212> PRT

<213> Homo sapiens

<400> 95

Glu Ile Asn Ile Ile Ile Trp Tyr Tyr Phe Pro Ser Ala Trp Arg Thr
 1 5 10 15

Cys Phe Asn Ile Ser Ser Ser Val Gly Leu Leu Leu Thr Asn Ser Tyr
 20 25 30

Lys Phe Tyr Thr Thr Thr Tyr Ser Thr Glu Arg Ser Glu His Phe Lys
 35 40 45

Pro Cys Arg Asp Lys Asp Leu Ala Tyr Cys Leu Asn Asp Gly Glu Cys
 50 55 60

Phe Val Ile Glu Thr Leu Thr Gly Ser His Lys His Cys Arg
 65 70 75

<210> 96

<211> 42

<212> PRT

<213> Homo sapiens

<400> 96

Asn Tyr Leu Gln Ile Lys Met Pro Thr Asp His Glu Glu Pro Cys Gly
 1 5 10 15

Pro Ser His Lys Ser Phe Cys Leu Asn Gly Gly Leu Cys Tyr Val Ile
 20 25 30

Pro Thr Ile Pro Ser Pro Phe Cys Arg Lys
 35 40

<210> 97

<211> 36
 <212> PRT
 <213> Homo sapiens

<400> 97

Met Pro Thr Asp His Glu Glu Pro Cys Gly Pro Ser His Lys Ser Phe
 1 5 10 15

Cys Leu Asn Gly Gly Leu Cys Tyr Val Ile Pro Thr Ile Pro Ser Pro
 20 25 30

Phe Cys Arg Lys
 35

<210> 98
 <211> 36
 <212> PRT
 <213> Homo sapiens

<400> 98

Met Pro Thr Asp His Glu Glu Pro Cys Gly Pro Ser His Lys Ser Phe
 1 5 10 15

Cys Leu Asn Gly Gly Leu Cys Tyr Val Ile Pro Thr Ile Pro Ser Pro
 20 25 30

Phe Cys Arg Lys
 35

<210> 99
 <211> 37
 <212> PRT
 <213> Mus musculus

<400> 99

Met Pro Thr Gly Asn Phe Leu Ser Arg Ala Ala Leu Trp Ser Gln Ala
 1 5 10 15

Gln Val Ile Leu Pro Gln Trp Gly Asp Leu Leu Cys Asp Pro Tyr Tyr
 20 25 30

Pro Gln Pro Ile Leu
 35

<210> 100
 <211> 37
 <212> PRT
 <213> Mus musculus

<400> 100

Met Pro Thr Gly Asn Phe Leu Ser Arg Ala Ala Leu Trp Ser Gln Ala
 1 5 10 15

Gln Val Ile Leu Pro Gln Trp Gly Asp Leu Leu Cys Asp Pro Tyr Tyr
 20 25 30

Pro Gln Pro Ile Leu
35

<210> 101
<211> 25
<212> PRT
<213> Homo sapiens

<400> 101

Ser His Lys Ser Phe Cys Leu Asn Gly Gly Leu Cys Tyr Val Ile Pro
1 5 10 15

Thr Ile Pro Ser Pro Phe Cys Arg Lys
20 25

<210> 102
<211> 30
<212> PRT
<213> Sus scrofa

<400> 102

Glu Pro Cys Gly Pro Ser His Arg Ser Phe Cys Leu Asn Gly Gly Ile
1 5 10 15

Cys Tyr Val Ile Pro Thr Ile Pro Ser Pro Phe Cys Arg Lys
20 25 30

<210> 103
<211> 30
<212> PRT
<213> Sus scrofa

<400> 103

Glu Pro Cys Gly Pro Ser His Arg Ser Phe Cys Leu Asn Gly Gly Ile
1 5 10 15

Cys Tyr Val Ile Pro Thr Ile Pro Ser Pro Phe Cys Arg Lys
20 25 30

<210> 104
<211> 46
<212> PRT
<213> Mus musculus

<400> 104

Cys Leu Phe Ala Pro Ala Asp Ser Pro Val Ala Ala Ala Val Val Ser
1 5 10 15

His Phe Asn Lys Cys Pro Asp Ser His Thr Gln Tyr Cys Phe His Gly
20 25 30

Thr Cys Arg Phe Leu Val Gln Glu Glu Lys Pro Ala Cys Val
35 40 45

<210> 105

<211> 51
 <212> PRT
 <213> Homo sapiens

<400> 105

Asp Leu Ser Pro Ala Ser Phe Leu Ser Pro Ala Asp Pro Pro Val Ala
 1 5 10 15

Ala Ala Val Val Ser His Phe Asn Asp Cys Pro Asp Ser His Thr Gln
 20 25 30

Phe Cys Phe His Gly Thr Cys Arg Phe Leu Val Gln Glu Asp Lys Pro
 35 40 45

Ala Cys Val
 50

<210> 106
 <211> 42
 <212> PRT
 <213> Homo sapiens

<400> 106

Val Gln Thr Glu Asp Asn Pro Arg Val Ala Gln Val Ser Ile Thr Lys
 1 5 10 15

Cys Ser Ser Asp Met Asn Gly Tyr Cys Leu His Gly Gln Cys Ile Tyr
 20 25 30

Leu Val Asp Met Ser Gln Asn Tyr Cys Arg
 35 40

<210> 107
 <211> 40
 <212> PRT
 <213> Homo sapiens

<400> 107

Gln Thr Glu Asp Asn Pro Arg Val Ala Gln Val Ser Ile Thr Lys Cys
 1 5 10 15

Ser Ser Asp Met Asn Gly Tyr Cys Leu His Gly Gln Cys Ile Tyr Leu
 20 25 30

Val Asp Met Ser Gln Asn Tyr Cys
 35 40

<210> 108
 <211> 42
 <212> PRT
 <213> Mus musculus

<400> 108

Val Gln Met Glu Asp Asp Pro Arg Val Ala Gln Val Gln Ile Thr Lys
 1 5 10 15

Cys Ser Ser Asp Met Asp Gly Tyr Cys Leu His Gly Gln Cys Ile Tyr
 20 25 30

Leu Val Asp Met Arg Glu Lys Phe Cys Arg
 35 40

<210> 109
 <211> 93
 <212> PRT
 <213> Homo sapiens

<400> 109

Met Thr Ala Gly Arg Arg Met Glu Met Leu Cys Ala Gly Arg Val Pro
 1 5 10 15

Ala Leu Leu Leu Cys Leu Gly Phe His Leu Leu Gln Ala Val Leu Ser
 20 25 30

Thr Thr Val Ile Pro Ser Cys Ile Pro Gly Glu Ser Ser Asp Asn Cys
 35 40 45

Thr Ala Leu Val Gln Thr Glu Asp Asn Pro Arg Val Ala Gln Val Ser
 50 55 60

Ile Thr Lys Cys Ser Ser Asp Met Asn Gly Tyr Cys Leu His Gly Gln
 65 70 75 80

Cys Ile Tyr Leu Val Asp Met Ser Gln Asn Tyr Cys Arg
 85 90

<210> 110
 <211> 93
 <212> PRT
 <213> Homo sapiens

<400> 110

Met Thr Ala Gly Arg Arg Met Glu Met Leu Cys Ala Gly Arg Val Pro
 1 5 10 15

Ala Leu Leu Leu Cys Leu Gly Phe His Leu Leu Gln Ala Val Leu Ser
 20 25 30

Thr Thr Val Ile Pro Ser Cys Ile Pro Gly Glu Ser Ser Asp Asn Cys
 35 40 45

Thr Ala Leu Val Gln Thr Glu Asp Asn Pro Arg Val Ala Gln Val Ser
 50 55 60

Ile Thr Lys Cys Ser Ser Asp Met Asn Gly Tyr Cys Leu His Gly Gln
 65 70 75 80

Cys Ile Tyr Leu Val Asp Met Ser Gln Asn Tyr Cys Arg
 85 90

<210> 111
 <211> 180
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> X = undefined amino acid

<220>
 <221> misc_feature
 <222> (118)..(118)
 <223> X = undefined amino acid

<400> 111

Pro Gly Glu Lys Ala Thr Arg Pro Lys Leu Lys Lys Met Lys Ser Gln
 1 5 10 15

Thr Gly Gln Val Gly Glu Lys Gln Ser Leu Lys Cys Glu Ala Ala Ala
 20 25 30

Gly Asn Pro Gln Pro Ser Tyr Arg Trp Phe Lys Asp Gly Lys Glu Leu
 35 40 45

Asn Arg Ser Arg Asp Ile Arg Ile Lys Tyr Gly Asn Gly Arg Lys Asn
 50 55 60

Ser Arg Leu Gln Phe Asn Lys Val Lys Val Glu Asp Ala Gly Glu Tyr
 65 70 75 80

Val Cys Glu Ala Glu Asn Ile Leu Gly Lys Asp Thr Val Gly Gly Arg
 85 90 95

Leu Tyr Val Asn Ser Val Thr Thr Thr Leu Ser Ser Trp Ser Gly His
 100 105 110

Ala Arg Lys Cys Asn Xaa Thr Ala Lys Ser Tyr Cys Val Asn Gly Gly
 115 120 125

Val Cys Tyr Tyr Ile Glu Gly Ile Asn Gln Leu Ser Cys Lys Ala Pro
 130 135 140

Gly Leu His Cys Leu Glu Leu Gly Thr Gln Ser His His Phe Pro Ile
 145 150 155 160

Ser Ala Ser Pro Gly Ser Ser Gln Gly Ser Trp Asn Gln Leu Pro Gln
 165 170 175

His Pro Leu Ser
 180

<210> 112
 <211> 120
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (13)..(13)
 <223> X = undefined amino acid

<400> 112

Glu Ala Glu Asn Ile Leu Gly Lys Asp Thr Val Arg Xaa Arg Leu Tyr
 1 5 10 15

Val Asn Ser Val Ser Thr Thr Leu Ser Ser Trp Ser Gly His Ala Arg
 20 25 30

Lys Cys Asn Glu Thr Ala Lys Ser Tyr Cys Val Asn Gly Gly Val Cys
 35 40 45

Tyr Tyr Ile Glu Gly Ile Asn Gln Leu Ser Cys Lys Ala His Gly Leu
 50 55 60

His Cys Leu Glu Leu Gly Thr Gln Ser His His Phe Pro Ile Ser Ala
 65 70 75 80

Ser Pro Gly Ser Ser Gln Gly Ser Trp Asn Gln Leu Pro Gln His Pro
 85 90 95

Leu Ser Ala Leu Gly Gly Glu Gly Ser Pro Gly Gly Asp Ala Val Arg
 100 105 110

Thr Pro Gly Pro Gln Ser Cys Ala
 115 120

<210> 113
 <211> 76
 <212> PRT
 <213> Mus musculus

<400> 113

Val Arg Gln Arg Arg Glu Thr Pro Ser Pro Pro Ile Ala Gly Ser Arg
 1 5 10 15

Met Ala Arg Asn Ser Thr Gly Val Val Ile Phe Ala Ser Ser Met Ala
 20 25 30

Met Ala Val Ser Thr Thr Leu Ser Ser Trp Ser Gly His Ala Arg Lys
 35 40 45

Cys Asn Glu Thr Ala Lys Ser Tyr Cys Val Asn Gly Gly Val Cys Tyr
 50 55 60

Tyr Ile Glu Gly Ile Asn Gln Leu Ser Cys Lys Gly
 65 70 75

<210> 114
 <211> 167

<212> PRT

<213> Danio rerio

<400> 114

Lys Asp Cys Ala Ser Ala Pro Lys Val Lys Pro Met Asp Ser Gln Trp
 1 5 10 15

Leu Gln Glu Gly Lys Lys Leu Thr Leu Lys Cys Glu Ala Val Gly Asn
 20 25 30

Pro Ser Pro Ser Phe Asn Trp Tyr Lys Asp Gly Ser Gln Leu Arg Gln
 35 40 45

Lys Lys Thr Val Lys Ile Lys Thr Asn Lys Lys Asn Ser Lys Leu His
 50 55 60

Ile Ser Lys Val Arg Leu Glu Asp Ser Gly Asn Tyr Thr Cys Val Val
 65 70 75 80

Glu Asn Ser Leu Gly Arg Glu Asn Ala Thr Ser Phe Val Ser Val Gln
 85 90 95

Ser Ile Thr Thr Thr Leu Ser Pro Gly Ser Ser His Ala Arg Lys Cys
 100 105 110

Asn Glu Thr Glu Lys Thr Tyr Cys Ile Asn Gly Gly Asp Cys Tyr Phe
 115 120 125

Ile His Gly Ile Asn Gln Leu Ser Cys Lys Cys Pro Asn Asp Tyr Thr
 130 135 140

Gly Glu Arg Cys Gln Thr Ser Val Met Ala Gly Phe Tyr Lys Ala Glu
 145 150 155 160

Glu Leu Tyr Gln Asn Glu Cys
 165

<210> 115

<211> 84

<212> PRT

<213> Gallus gallus

<400> 115

Ala Val Gln Ser Leu Glu Leu Leu Gln Gln Thr Trp Arg Leu Ser Thr
 1 5 10 15

Leu Gln Phe Glu Tyr Asp Arg Arg Val Ala Cys Gly Phe His Tyr Thr
 20 25 30

Thr Thr Tyr Ser Thr Glu Arg Ser Glu His Phe Lys Pro Cys Lys Asp
 35 40 45

Lys Asp Leu Ala Tyr Cys Leu Asn Glu Gly Glu Cys Phe Val Ile Glu
 50 55 60

Thr Leu Thr Gly Ser His Lys His Cys Arg Ser Asn Cys Pro Ser Gly
65 70 75 80

Val Phe Cys Trp

<210> 116
<211> 77
<212> PRT
<213> Gallus gallus

<400> 116

Met Arg Thr Asp His Glu Glu Leu Cys Gly Thr Ser Tyr Gly Ser Phe
1 5 10 15

Cys Leu Asn Gly Gly Ile Cys Tyr Met Ile Pro Thr Val Pro Ser Pro
20 25 30

Phe Cys Arg His Leu Pro Lys Ala Ala Asn Gln Ala Ser Ala Leu His
35 40 45

Lys Ser Val Phe Ser Ile Phe Val Leu His Thr Asp Thr Thr Ala Leu
50 55 60

Pro Ser Cys His Leu Met Pro Ala His Phe Tyr Thr Gln
65 70 75

<210> 117
<211> 65
<212> PRT
<213> Mus musculus

<400> 117

Met Pro Thr Asp His Glu Gln Pro Cys Gly Pro Arg His Arg Ser Phe
1 5 10 15

Cys Leu Asn Gly Gly Ile Cys Ile Asp Pro Tyr Tyr Pro His Pro Phe
20 25 30

Cys Arg Phe Tyr His Leu Phe Leu Arg His Cys Leu Leu Lys Pro Phe
35 40 45

Val Gln Leu Gly Thr Leu Val Tyr Pro Val Phe Leu Lys Glu Leu Phe
50 55 60

His
65

<210> 118
<211> 70
<212> PRT
<213> Homo sapiens

<400> 118

Asp Val Ile Ala Gln His Lys Pro Glu Ser Glu Asn Thr Ser Asp Lys
1 5 10 15

Pro Lys Arg Lys Lys Lys Gly Gly Lys Asn Gly Lys Asn Arg Arg Asn
20 25 30

Arg Lys Lys Lys Asn Pro Cys Asp Ala Glu Phe Gln Asn Phe Cys Ile
35 40 45

His Gly Glu Cys Lys Tyr Ile Glu His Leu Glu Ala Val Thr Cys Asn
50 55 60

Val Ser Arg Ile Phe Pro
65 70

<210> 119
<211> 112
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2)..(2)
<223> X = undefined amino acid

<400> 119

Leu Xaa Ala Thr Thr Gln Ser Lys Trp Lys Gly His Ser Ser Arg Cys
1 5 10 15

Pro Lys Gln Tyr Lys His Tyr Cys Ile Lys Gly Arg Cys Arg Phe Val
20 25 30

Val Ala Glu Gln Thr Pro Ser Cys Val Pro Leu Arg Lys Arg Arg Lys
35 40 45

Arg Lys Lys Lys Glu Glu Glu Met Glu Thr Leu Gly Lys Asp Met Thr
50 55 60

Pro Ile Asn Glu Asp Ile Glu Glu Thr Asn Ile Ala Tyr Lys Ala Met
65 70 75 80

Lys Leu Pro Pro Gly Trp Trp Gln Ala Ala Lys Cys Leu Ala His Leu
85 90 95

Lys Met Asp Arg Met Arg Leu Arg Lys Thr Ala Ser Arg His Glu Phe
100 105 110

<210> 120
<211> 119
<212> PRT
<213> Mus musculus

<400> 120

Lys Ser Leu Thr Trp Lys Ser Phe Asn Phe Leu Ser Leu Leu Leu Pro


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<210> 121
<211> 141
<212> PRT
<213> Cercopithecus aethiops (African green monkey)
<400> 121
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Met 1	Lys	Leu	Leu	Pro 5	Ser	Val	Val	Leu	Lys 10	Leu	Leu	Leu	Ala	Ala 15	Val
Leu	Ser	Ala	Leu 20	Val	Thr	Gly	Glu	Ser 25	Leu	Glu	Gln	Leu	Arg 30	Arg	Gly
Pro	Ala	Ala 35	Gly	Thr	Ser	Asn	Pro 40	Asp	Pro	Ser	Thr	Gly 45	Ser	Thr	Asp
Gln	Leu 50	Leu	Arg	Leu	Gly	Gly 55	Gly	Arg	Asp	Arg	Lys 60	Val	Arg	Asp	Leu
Gln 65	Glu	Ala	Asp	Leu	Asp 70	Leu	Leu	Arg	Val	Thr 75	Leu	Ser	Ser	Lys	Pro 80
Gln	Ala	Leu	Ala	Thr 85	Pro	Ser	Lys	Glu	Glu 90	His	Gly	Lys	Arg	Lys 95	Lys
Lys	Gly	Lys	Gly 100	Leu	Gly	Lys	Lys	Arg 105	Asp	Pro	Cys	Leu	Arg 110	Lys	Tyr
Lys	Asp	Phe 115	Cys	Ile	His	Gly	Glu 120	Cys	Lys	Tyr	Val	Lys 125	Glu	Leu	Arg

Ala Pro Ser Cys Met Ala Ala Gly Gln Lys Asp Val Thr
130 135 140

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<213> Homo sapiens

<400> 122

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Thr Ala Gln Gln Ala Asp Asn Ile Glu Gly Pro Ile Ala Leu Lys Phe
20 25 30

Ser His Leu Cys Leu Glu Asp His Asn Ser Tyr Cys Ile Asn Gly Ala
35 40 45

Cys Ala Phe His His Glu Leu Glu Lys Ala Ile Cys Arg Cys Leu Lys
50 55 60

Leu Lys Ser Pro Tyr Asn Val Cys Ser Gly Glu Arg Arg Pro Leu
65 70 75

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<400> 123

Gly Thr Arg Glu Ala Leu Cys Tyr Arg Cys Phe Cys Pro Leu Asn Thr
1 5 10 15

Ala Met Arg Ala Leu Thr Glu Glu Ala Ala Val Thr Val Thr Pro Pro
20 25 30

Ile Thr Ala Gln Gln Ala Asp Asn Ile Glu Gly Pro Ile Ala Leu Lys
35 40 45

Phe Ser His Leu Cys Leu Glu Asp His Asn Ser Tyr Cys Ile Asn Gly
50 55 60

Ala Cys Ala Phe His His Glu Leu Glu Lys Ala Ile Cys Arg Cys Leu
65 70 75 80

Lys Leu Lys Ser Pro Tyr Asn Val Cys Ser Gly Glu Arg Arg Pro Leu
85 90 95

<210> 124
<211> 96
<212> PRT
<213> Homo sapiens

<400> 124

Gly Thr Arg Glu Ala Leu Cys Tyr Arg Cys Phe Cys Pro Leu Asn Thr
Page 42

1 5 10 15
 Ala Met Arg Ala Leu Thr Glu Glu Ala Ala Val Thr Val Thr Pro Pro
 20 25 30
 Ile Thr Ala Gln Gln Ala Asp Asn Ile Glu Gly Pro Ile Ala Leu Lys
 35 40 45
 Phe Ser His Leu Cys Leu Glu Asp His Asn Ser Tyr Cys Ile Asn Gly
 50 55 60
 Ala Cys Ala Phe His His Glu Leu Glu Lys Ala Ile Cys Arg Cys Leu
 65 70 75 80
 Lys Leu Lys Ser Pro Tyr Asn Val Cys Ser Gly Glu Arg Arg Pro Leu
 85 90 95

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 35 40 45
 Lys Phe Ser His Leu Cys Leu Glu Asp His Asn Ser Tyr Cys Ile Asn
 50 55 60
 Gly Ala Cys Ala Phe His His Glu Leu Glu Lys Ala Ile Cys Arg Cys
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 85 90 95

Leu

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<400> 126

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 35 40 45
 Asn Trp Thr Val Asn Lys Thr Glu Ala Asp Asn Ile Glu Gly Pro Ile
 50 55 60
 Ala Leu Lys Phe Ser His Leu Cys Leu Glu Asp His Asn Ser Tyr Cys
 65 70 75 80
 Ile Asn Gly Ala Cys Ala Phe His His Glu Leu Glu Lys Ala Ile Cys
 85 90 95
 Arg Cys Leu Lys Leu Lys Ser Pro Tyr Asn Val Cys Ser Gly Glu Arg
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 Arg Pro Leu
 115

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35 40 45

His Leu Cys Leu Glu Asp His Asn Ser Tyr Cys Ile Asn Gly Ala Cys
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Ala Phe His His Glu Leu Glu Lys Ala Ile Cys Arg Cys Leu Lys Leu
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Lys Ser Pro Tyr Asn Val Cys Ser Gly Glu Arg Arg Pro Leu
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<212> DNA

<213> Homo sapiens

<400> 141

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 <212> DNA
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<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Mus musculus

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gaattgattt tacttttcaa ggtttttaggg tgttttgggt tcttgatggg ttgagtattt 1260
tttttgttt gttgggtttt gggttttgct gttttgtttt gttttttgtt tttgttttct 1320
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gaagtgtgca aatattgtag aaagctgtca ctttgaatcc ctactttttt atcccatgta 1440
ttaattgagc cataaggtac ataaggtaac ttttttttaa cctcagtgct tacctgcaag 1500
gtgaacagga caaatagagg ttgcaagaga gcagaaagtt acctgctaaa gcatttctta 1560

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tgctctggat tatggtattg ccccataatt agttttcaag acaaatttta agttgccctt 1620
tctagttact 1630

<210> 147
<211> 366
<212> DNA
<213> Mus musculus

<400> 147
ttcaaggcac tgctcgtcct tgctcgcact catttgccct tggatcatag gcgatggccc 60
cagctcctag cctcctgcac taccataa tcgtctgtca cccttttgtt ttttgcagag 120
ctcacaactg gcatgtcagc ctcaactgaa agaccctatg tgtcctcaga gtctccatt 180
agaatatcag tttcaacaga aggcgcaaact acttcttcat ccacatctac atccacgact 240
gggacaagcc atctaataaa gtgtgaggag aaggagaaaa ctttctgtgt gaacggaggc 300
gagtgttca tggatgaagga cctgtcaaac ccctcaagat acttgtgcaa gtaagaaatg 360
aattcc 366

<210> 148
<211> 412
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (339)..(339)
<223> n = undefined nucleotide

<400> 148
caccggccc aagttgaaga agatgaagag ccagacggga caggtgggtg agaagcaatc 60
gctgaagtgt gaggcagcag cgataaatcc ccagccttcc taccgttggg tcaaggatgg 120
caaggagctc aaccgcagcc gagacattcg catcaaatat ggcaacggca gaaagaactc 180
acgactacag ttcaacaagg tgaagggtgga ggacgctggg gagtatgtct gcgaggccga 240
gaacatcctg gggaaggaca ccgtacgagg ccggctttac gtcaacagcg tgacgaccac 300
cctgtcatcc tggtcggggc acgccgggaa gtgcaacgng acagccaagt cctattgcgt 360
caatggaggc gtctgtact acatcgaggg catcaaccag ctctcctgca ag 412

<210> 149
<211> 350
<212> DNA
<213> Homo sapiens

<400> 149
ggtcatcttc cagttttgac gtggggcatg aaggagatga ttcctggggc ctagggatag 60
tctcagtgcg tactggcac atgtctctca taccctcagt gagcaccacc ctgtcatcct 120
ggtcggggca cggccggaag tgcaacgaga cagccaagtc ctattgcgtc aatggaggcg 180
tctgtacta catcgagggc atcaaccagc tctcctgcaa gtaagtgacc agtaggggtg 240
ggcatgggag caagaacagg gtaggagatg ctgggtcaga agtgaggggc tctaggaaaa 300
gagggttcca agccactgac aagaggtccc caagggtgtg agacaggaag 350

<210> 150
 <211> 629
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (554)..(554)
 <223> n = undefined nucleotide

<220>
 <221> misc_feature
 <222> (577)..(577)
 <223> n = undefined nucleotide

<220>
 <221> misc_feature
 <222> (594)..(594)
 <223> n = undefined nucleotide

<400> 150
 gggagtcaag agatggcagt acttggetga aggttggttag tgagagatca atataatcat 60
 ctggtattat tttccttctg cctggaggac ttgctttaac atttcaagta gtgtgggtct 120
 gctgctgacg aattcataca aattttatac gacgacatat tccacagagc gatccgagca 180
 cttcaaacc tgccgagaca aggaccttgc atactgtctc aatgatggcg agtgctttgt 240
 gatcgaaacc ctgaccgat cccataaaca ctgtcggtaa gccactgagg cactgatgg 300
 aaagggcagg cccgttgcaa ggcgtggggg tggagggtgc tggcagcatc tggatatgtg 360
 catatccggg atacacacag tcccaccgtt tgaatagcag aattgcgagt cttaatttgg 420
 aaagggcaag gctgctgcct cttaacagt ggaagaagac aaaatggaaa caaagtagtt 480
 acggtttaag ttttacctga ccaagcaaac aaagatttac ttttagatct gcaaagttaa 540
 tggaaataat tatntacaca ctttagaagc gtctgtntat gatgtggagc ttangcatat 600
 atcctagtac tcagaaataa tctgttctt 629

<210> 151
 <211> 595
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (205)..(205)
 <223> n = undefined nucleotide

<400> 151
 gtgtctgcgg tattcaaaaa cttttgaaac actgcatgtc caacaaaatt tattttttgt 60
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 aaactattta caaattaaga tgccaacaga tcacgaagag ccctgtgggtc ccagtcacaa 180
 gtcgttttgc ctgaatgggg ggctntgtta tgtgatacct actattccca gccattttg 240
 taggaagtga actgatgctg gcttctcttt gtcttattcc aagttgggca tgagattttc 300
 cctgcattag aaggttgttg agacctgaag cctgggaagg tgcgttgaaa actatacagg 360

agctcgttgt gaagagggtt ttctcccagg ctccagcatc caaactaaaa gtaacctgtt 420
 tgaagctttt gtggcattgg cggctctagt aacacttatc attggagcct tctacttcct 480
 ttgcaggaaa ggccactttc agagagccag ttcagtccag tatgatatac acctggtaga 540
 gacgagcagt accagtgtcc accacagtca tgaacaacac tgaagaaacg tcaaa 595

<210> 152
 <211> 545
 <212> DNA
 <213> Homo sapiens

<400> 152
 taagaaataa aggattagat ttttaattct tttacctagt ggtgtttcat tttctgcctt 60
 tgtaaaataa aaacaatgat ttggttcact ttgacgtttc ttcagtgttg ttcattgactg 120
 tgggtgggcac tgggtactgct cgtctctacc aggttgatat catactggac tgaactggct 180
 ctctgaaagt ggcctttcct gcaaaggaag tagaaggctc caatgataag tgttactagg 240
 accgccaatg ccacaaaagc ttcaaacagg ttacttttag tttggatgct ggagcctggg 300
 agaaaaacct cttcacacg agctcctgta tagttttcaa cgcaccttc caggcttcag 360
 gtctcaacaa ctttctaag cagggaaaat ctcatgccca acttggaata agacaaagag 420
 aagccagcat cagttcactt cctacaaaat gggctgggaa tagtaggtat cacataacaa 480
 agccccccat tcaggcaaaa cgacttgtag ctgggaccac agggctcttc gtgatctgtt 540
 ggcat 545

<210> 153
 <211> 715
 <212> DNA
 <213> Homo sapiens

<400> 153
 gcctgagctg ggcagggggc ggaggcgggg gctcggctgt ctccggggct gccacgcaga 60
 gcgggcttcg tggcgtggat gaagaaactg aggcacagag ggattaagta gcctgctcaa 120
 gatcacacag ctagtaagga accaagattc aaacttgggc agtgtgattc agagacttta 180
 aattcaacgc tggcgcctca ctgcctcaca ctaaaagtga atcagaaaaa taaagaacca 240
 gcatcaaatt tgaagtggcc acaaatctta ttaaagcaga agaaatagtg gtgaaccata 300
 aaagataacc agtttcctct ctattctgca atttagagga aaaattttca tccaaggaca 360
 gatcaggtgg tggacctaga tgggaaaccc aaattataat caagagattt cttggtactg 420
 tttttcaacc ctactctctt gaccaagaat gaaactatct acaaattaag atgccaacag 480
 atcacgaaga gccctgtggt cccagtcaca agtcgttttg cctgaatggg gggctttggt 540
 atgtgatacc tactattccc agccattttt gtaggaagtg aactgatgct ggcttctctt 600
 tgtcttattc caagttgggc atgagatttt ccctgcatta gaaggttggt gagacctgaa 660
 gcctgggaag gtgcgttgaa aactatacag gagctcgttg tgaagaggtt tttct 715

<210> 154
 <211> 669

<212> DNA
<213> Mus musculus

<400> 154
gagtgttcaa acacttgtga aacgctgcat gtctagcaaa attttctttt tttatgggaa 60
tataaatttc tgttgagggtg ctgattttca accttaattc ttccatcaag aatgaaacta 120
tttaaaaatt aagatgccaa caggtaattt cttatcacga gcagccctgt ggtcccaggc 180
acaggtcatt ttgcctcaat ggggggattt gttatgtgat ccctactatc cccagcccat 240
tctgtaggaa gtgaactgtt gctggcttct ctttgtctta ttccaagttg ggtcatgaga 300
ttttccctgc accctgggaa ggtgcattga aaattacacc ggagcacgct gcgaagaggt 360
tttttctcca agctccagca tccaagcga aagtaatctg tcggcagctt tcgtggtgct 420
ggcggtcctc ctcaacttta ccatcgcggc gctctgcttc ctgtgcaggg ccgagtggaa 480
ctgaccctcc aggacatatg tgagatgcta aaaggaagac taaagaagtg gaagggccac 540
cttcagaggg ccagttcagt ccaatgtgag atcagcctgg tggaaacaaa caataccaga 600
acccgtcaca gccacagaaa acactggaaa catacatccc cagggaaggg catcattacc 660
tacaaaggg 669

<210> 155
<211> 614
<212> DNA
<213> Mus musculus

<400> 155
gagtgttcaa acacttgtga aacgctgcat gtctagcaaa attttctttt tttatgggaa 60
tataaatttc tgttgagggtg ctgattttca accttaattc ttccatcaag aatgaaacta 120
tttaaaaatt aagatgccaa caggtaattt cttatcacga gcagccctgt ggtcccaggc 180
acaggtcatt ttgcctcaat ggggggattt gttatgtgat ccctactatc cccagcccat 240
tctgtaggaa gtgaactgtt gctggcttct ctttgtctta ttccaagttg ggtcatgaga 300
ttttccctgc accctgggaa ggtgcattga aaattacacc ggagcacgct gcgaagaggt 360
tttttctcca agctccagca tccaagcga aagtaatctg tcggcagctt tcgtggtgct 420
ggcggtcctc ctcaacttta ccatcgcggc gctctgcttc ctgtgcagga agggccacct 480
tcagagggcc agttcagtc agtgtgagat cagcctggta gagacaaaca ataccagaac 540
ccgtcacagc cacagagaac actgaagaca tacatcccca gtgaagggca tcattaccta 600
caaaggcgga ctgg 614

<210> 156
<211> 513
<212> DNA
<213> Homo sapiens

<400> 156
ttaagaaata aaggattaga tttttaattc ttttacctag tgggtgtttca ttttctgcct 60
ttgtaaaata aaaacaatga tttggttcac tttgacgttt cttcagtggt gttcatgact 120
gtggtgggca ctggtactgc tcgtctctac caggttgata tcatactgga ctgaactggc 180

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tctctgaaag tggcctttcc tgcaaaggaa gtagaaggct ccaatgataa gtgttactag      240
gaccgccccat gccacaaaag cttcaaacag gttactttta gtttgatgc tggagcctgg      300
gagaaaaacc tcttcacaac gagctcctgt atagtittca acgcaccttc ccaggcttca      360
ggtctcaaca accttctaata gcagggaata tctcatgccc aacttggaat aagacaaaga      420
gaagccagca tcagttcact tcctacaaaa tgggctggga atagtaggta tcacataaca      480
aagcccccca ttcaggcaaa acgacttggt act                                     513

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<210> 157
<211> 243
<212> DNA
<213> Sus scrofa

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<400> 157
aagagccctg tgggtcccagt cacagggtcat tttgcctgaa tggagggatt tgttatgtga      60
tacctactat tcccagcccc ttttgtagga agtgaactga tgctggcttc tctttgtctt      120
attccaagtt ggggcatgag attttgcttg cattagaagg ttgttgagac ctgaagcctg      180
gtaagggtcat gcagaacatt gaagaaatac catagtgaac tcaaaatcgt tgcttctttg      240
tta                                                                    243

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<210> 158
<211> 300
<212> DNA
<213> Sus scrofa

```

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<220>
<221> misc_feature
<222> (111)..(275)
<223> n = undefined nucleotide

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<400> 158
aagagccctg tgggtcccagt cacagggtcat tttgcctgaa tggagggatt tgttatgtga      60
tacctactat tcccagcccc ttttgtagga agtgaactga tgctggcttt ncnttggcct      120
aatnccagnt tgggcatgag atttgcctgc attagaangg tgttgaganc tgaagcctgg      180
taaaggcatg cagaacattg aagaatacnt agtgaactcc aaatcggtgc ttccttggtgta      240
caaaaggcgn aatgnagccc atacggtaaa gatcnatgag ttaatcctcc ttggcccca      300

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<210> 159
<211> 2360
<212> DNA
<213> Mus musculus

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<400> 159
ttgtttgttg ttgcatacac caggctgctg gacactgaac ttctggcaat tctcttgtct      60
ctgaccccat ctcttggtag aggtgactg gactacagac atgtgcccta ctgactggc      120
tatttatgtg gatttgaact cagggtcatca ggctgtgggg cgagtgcctt accctctgaa      180
ctatcttccc agcccctggt gttggcttgt gtctcatgtg ttagggaggt tcagtgcctt      240
catggcactt ggcagtgctt tgtgaggcac cagagagttg gaggccacca tgggtgtgaca      300
tgaccctttg catgtccttc cagctatttc tcaggctgga tacaaagtgc cagggtgcatg      360

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gaaacttcat tatagaggtt caggtaccca ggtcaatggt ttcctcagga actctaagta 420
 gaaaactaaa ctctagtcag ttgctatta aaaacagatc ccagctcaag cgtcccggga 480
 ctctttttgt accctggaca tctggttgac agttctcatc cttcaacttg ctgagccctc 540
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 ccacccccctt cctcccctaa gacgagggga atactcacac acatgctggc ttctcttcct 660
 gcacacaaaaa ccggcaggtt ccatggaagc agtactgagt gtgggaatct gggcacttgt 720
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 agacctggca cagctcacac ccaggaggaa tttctgccct cacctgatgc cttctgcaaa 840
 actcacgtcc taatgcccag ccagggtcga gagttttcat taagcagtct gtatatTTTT 900
 ctaagataac aaaataattt ctccaaaggc ttggtataa ttcaaagata gctagttaga 960
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 aactccagca ttctagttcc tggggaacca ctatactgct gaaggcagag ctctatgcct 1260
 tgtaacagaa taaacaaaga tgctcaatgg ataaacatac tgacacacat gtaggatTga 1320
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 caagtagttc aggtTggcct agaattcact gtgtagccca ggctagtctt gaactctTga 1620
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 ctttctgctg ccttctcca ggctaagaga agaaaggatg aaggaagagg aatgacaatc 1860
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 atcaagagTc ataaaaacac agcacacacc aatgacatac ttgtgaactt acattcctgt 2100
 tctaaaaatc aagggtgaat cacattgcaa ccaggaaact gccctTgcct gggactcagg 2160
 ggcagctgcc aaagcacaga actggtaagt ttacgaggag actccaagtt cccgatatct 2220
 tcccccaaga ttggacctt caactctttt tctcttttta tctttttaa ttaaaagatg 2280
 tgtgcgtTgt gtgtgtgtgt gcgcacgcgc ttgtgactgc aaatgctgcc aagtgaactt 2340
 ggacaagcat tactgcatct 2360

<210> 160
 <211> 180
 <212> DNA
 <213> Homo sapiens

<400> 160
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 tccccattta atgactgccc agattccac actcagttct gttccatgg aacctgcagg 120
 tttttggtgc aggaggacaa gccagcatgt gtgtaagtat cccctgttct cctggagatc 180

<210> 161
 <211> 129
 <212> DNA
 <213> Homo sapiens

<400> 161
 cagttcagac agaagacaat ccacgtgtgg ctcaagtgtc aataacaaag tgtagctctg 60
 acatgaatgg ctattgtttg catggacagt gcatctatct ggtggacatg agtcaaaaact 120
 actgcaggt 129

<210> 162
 <211> 120
 <212> DNA
 <213> Homo sapiens

<400> 162
 cagacagaag acaatccacg tgtggctcaa gtgtcaataa caaagtgtag ctctgacatg 60
 aatggctatt gtttgcatgg acagtgcac tatctggtgg acatgagtca aaactactgc 120

<210> 163
 <211> 129
 <212> DNA
 <213> Mus musculus

<400> 163
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 acatggacgg ctactgcttg catggccagt gcatctacct ggtggacatg agagagaaat 120
 tctgcagat 129

<210> 164
 <211> 1299
 <212> DNA
 <213> Homo sapiens

<400> 164
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 cccgtctgct cccgccctgc ccgtgcactc tccgcagccg ccctccgcca agccccagcg 120
 cccgtctcca tcgccatga ccgcggggag gaggatggag atgctctgtg ccggcagggg 180
 ccctgcgctg ctgctctgcc tgggtttcca tcttctacag gcagtcctca gtacaactgt 240
 gattccatca tgtatcccag gagagtccag tgataactgc acagctttag ttcagacaga 300
 agacaatcca cgtgtggctc aagtgtcaat aacaaagtgt agctctgaca tgaatggcta 360
 ttgtttgcat ggacagtgtc tctatctggt ggacatgagt caaaactact gcaggtaata 420

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tgtcagaaat aaacaaacac agtttgtaaa attttgtttt atagatttag gggtagaagt 480
gcagatttgc tagtgatat attcagtagt ggtgaagtct gagcttttag agtacctacc 540
cctcaaatag tgtgcatgga acccattagg taatttttca tcccttaacc ccccaaaac 600
tcttctacct tttgaagtct ccagagtcta ttactccact ctctatgaca atgtgtacac 660
attatttagc tcccacttgt gagaacatgt gataaacaaa tgcagtttta ctctttgtat 720
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tattattaga aacttttctg agttttttaa aattaggtag taaatagtag cttttaaatt 840
gcacacatat gtcagagggtg cagagcaggg aggacttctg atgcttctca cacttgccaa 900
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cagtgcgcgg agatcatgcc actgtactcc agcctgggca acacagcgag actccgtctc 1260
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1299

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<210> 165
<211> 1215
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (554)..(839)
<223> n = undefined nucleotide

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<400> 165
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gccccagcgc ccgtcccat cgccgatgac cgcggggagg aggatggaga tgctctgtgc 180
cggcagggtc cctgcgctgc tgctctgcct gggtttccat cttctacagg cagtcctcag 240
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tcagacagaa gacaatccac gtgtgggtca agtgtcaata acaaagtgtg gctctgacat 360
gaatggctat tgtttgcatg gacagtgcac ctatctgggtg gacatgagtc aaaactactg 420
caggtaatat gtcagaaata aacaaacaca gtttgtaaaa ttttgtttta tagatttagg 480
ggtacaagtg cagatttgct agtggatata ttcagtagtg gtgaagactg ctattactcc 540
atgtgcttcc cgcnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 600
nnnnnnnnnn nnnnnnggnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 660
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 720
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 780
nnnnnccnnn nnnnnnnncn nngnnnnngn nnnnnngnnn nnnnnnnnnn gttnttttng 840

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aaactttttt tttgaggttt ttaaaaaaat taggggtagt aaaaataggg aggtttttta 900
aaatttgccc caccattatg tccaaaagtg gccacaagtc aggaaaggaa ccttttgag 960
ggctttttct ccccttttgc ccccggaagg ggggtcctcc tccgggcctt gggaatcttt 1020
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cgcgccccgg acgccgtatg gggcttcag ggcctggaaa cccacccca ctcttttgtg 1140
gggggtcccg aggcaggggg gggggaattc cgcgggggcc ccggggaaat tacaaacacc 1200
ctccccctgg ggcga 1215

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<210> 166
<211> 549
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (355)..(355)
<223> n = undefined nucleotide

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<400> 166
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gttggttcaa ggatggcaag gagctcaacc gcagccgaga cattcgcac aaatatggca 180
acggcagaaa gaactcacga ctacagttca acaaggtgaa ggtggaggac gctggggagt 240
atgtctcgca ggccgagaac atcctgggga aggacaccgt cggaggccgg ctttacgtca 300
acagcgtgac gaccaccctg tcaccttgtt cggggcacgc ccggaagtgc aacngacag 360
ccaagtccta ttgctcaat ggaggcgtct gctactacat cgagggcac aaccagctct 420
cctgcaaggc acctgggctg cactgcttag aacttggtac ccagagccac cacttcccca 480
tctcagctc ccctgggtcc agccaagggt cctggaacca acttcccaa cacccttgt 540
cagccctcg 549

```

```

<210> 167
<211> 362
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (323)..(323)
<223> n = undefined nucleotide

```

```

<400> 167
agcacagctc tgaggacctg gtgttctgac cgcattcca ccagggtgc ccttcccc 60
gagggtgac aaaggtgtt ggggaagttg gttccaggaa cttgggtgg aaccagggga 120
ggctgagatg gggaaagtgt ggctctgggt accaagttct aagcagtga gccatgtgc 180
cttgaggag agctggttga tgccctcgat gtagtagcag acgcctccat tgacgcaata 240
ggacttggct gtctcgttgc acttccgggc gtgccccgac caggatgaca ggggtgtgct 300

```

cacgctgttg acgtaaagcc ggncccgac ggtgtccttc cccaggatgt tctcggcctc 360
gc 362

<210> 168
<211> 458
<212> DNA
<213> Mus musculus

<400> 168
gtgtgaggca gcggcgaggaa acccccagcc ctctatcgc tggttcaagg atggcaagga 60
actcaaccgg agtcgtgata ttgcacata gtatggcaat ggcagtgagc accactctgt 120
catcctgggtc gggacatgcc cggaagtga atgagaccgc caagtcctac tgtgtgaatg 180
gaggcgtgtg ctactacatc gagggcatca accagctctc ctgcaaaggc tgaggagctg 240
taccagaaga gagtgtgac aattactggt atctgtgtgg ccctgctggt cgtgggcatc 300
gtctgtgtgg tcgcctactg caagacaaa aaacagagga ggcagatgca tcatcatctc 360
cggcagaaca tgtgccagc ccaccagaac cgaagcctgg ccaacgggcc agccaccctc 420
ggctggacca tgaggagacc agatggcaga ttaatctc 458

<210> 169
<211> 539
<212> DNA
<213> Danio rerio

<400> 169
ccaccagcag agccacgcag atgccagtta tcgtcagcac tcgttttgggt acagctcctc 60
agcctttagt aaaccggcca taacggagggt ttgacagcgt tcgccggtat agtcatttgg 120
acacttgacg gacagctgat ttataccatg tatgaaataa cagtctccac cgttgatgca 180
gtatgtcttc tcagtttcat tgcacttctt ggcagtactt gagcccggag acaatgtggt 240
ggttatgctt tggacgctga cgaagctggt ggcgttttct ctgccagcg agttctccac 300
cacacagggt tagttcccag aatcctccag tctgactttg ctaatgtgaa gctttgagtt 360
tttcttgttg gttttgattt tgacggtttt cttttggcga agctggctgc catctttgta 420
ccagttgaag gaggggctcg ggttgccac agcttcacac ttcagtgtca actttttacc 480
ttctggagc cactgagaat ccatgggctt cacctttgga gctgatgcgc agtctttac 539

<210> 170
<211> 654
<212> DNA
<213> Gallus gallus

<400> 170
cacgctggga gatgagtgt gtggtgccca gctgtgaggt gcctgggctg gcagtgcctc 60
tccctctctc cctctgcagg ggaaagaaag aagggaactt ttctttctct gaagtagaag 120
ttcagatatt gatggtgaagg gagctgatgt ggaggcctgg ccttaaggaa ggctttcagt 180
aggcagtaca gtctttggag ctgctgcagc agacctggcg gttgtctacc ttgcaatttg 240
agtatgacag aagagtagcc tgtggattcc actatactac aacgtattcc actgagcgat 300

```

ctgagcactt taagccatgc aaagacaagg atcttgcata ctgtctcaac gagggggaat 360
gctttgtgat tgaaacctta acaggatcac ataaacactg ccgcagcaat tgcccttctg 420
gtgttttctg ctggtgacct gtctgaatag atgttcttcc agaggtggtt gtggtttg 480
gcattgatgc tgggaagagg attaccagga agagctcagc tgttccttca ttgctcagtc 540
cacgtttata aagaaggatg gacagtgacc tgtgagcaag cttgtttgca aaagaaagca 600
ttatctgttg gtaacttttg caataaaaaa tatttcttgt attactctaa aaaa 654

```

```

<210> 171
<211> 758
<212> DNA
<213> Gallus gallus

```

```

<220>
<221> misc_feature
<222> (4)..(4)
<223> n = undefined nucleotide

```

```

<400> 171
gcanggcggg aggcgccgcg cggtcgctgt ccgcgggcag acagcggcat tacataaccg 60
cgtacagaga gcagctgcgg gattacacga tgcagattag cggcggcggt gattcagcag 120
atgccctgtg cgtgtgtgag ggggattacg gcggcgcggg gcagaaccgc cgtgcgggtg 180
ccgttttaga agaatagctt ctgaccaaga attagaattg ttggaataat atgcgaacag 240
atcatgaaga actctgtggc accagttatg gatctttttg tctaaatgga ggcatttgct 300
atatgattcc tactgtaccc agtccattct gcagacatct tccgaaagca gcaaaccaag 360
cttcagcctt acataagtca gtcttctcta tcttcgtttt acatacagac accactgcac 420
tcccaagctg ccatttaatg cctgctcatt tctatacgca atgaaagata actagaaaat 480
ccgtatttca aggcctatcct ccatctctac atccctgcaa actacctaag aacaattaga 540
tggaacagga ttgtctacaa cattgttatc acaaaggagg ctatcttatg gatggaattt 600
cttttttctc agatgtatta cttaccagca aggaaggtag ttctgtttga atcttctcaa 660
taaacaccac atttcctgtt tcagggtggg tgggaactat tcttcaaacg gaggaggttt 720
atgtgttcct ttcgttccta taatgtctca ataattgag 758

```

```

<210> 172
<211> 547
<212> DNA
<213> Mus musculus

```

```

<400> 172
gttgctgaag tcctcagtgt tcaaacactt gtgaaacgct gcatgtctag caaaattttc 60
tttttttatg ggaatataaa tttctgttga ggtgctgatt ttcaacctta attcttccat 120
caagaatgaa actatttaaa aattaagatg ccaacagatc acgagcagcc ctgtggtccc 180
aggcacaggt cattttgcct caatgggggg atttgatttg atccctacta tccccacca 240
ttctgtaggt tttatcattt gtttctaaga cattgcctac ttaaaccatt cgtgcaattg 300
ggcaccttgg tgtaccagtg gtttctgaag gagttattcc attgacgcgc cccaagttct 360

```

```

tcattgcagtg gtgttcctga atgcttgaaa tctgttttct gcgaatcctt ggtgggatgg      420
ctagaaacct gtgaaaaatc atgaaatcac caaataccat gtgatgtgta tagtctcttc      480
tcctctccac tgacagctta atcaggggaa agggactgtt gctgcttctc tttgtcttat      540
tcccagt                                           547

```

```

<210> 173
<211> 233
<212> DNA
<213> Homo sapiens

```

```

<400> 173
cggatgtatc ccaacaccgt cacggaaata ttctgctgac attgcatgtt actgcttcca      60
ggtgctctat atatttgcac tctccgtgaa tgcagaaatt ttgaaattct gcatcacatg      120
gatttttctt ctttctgttt cttctatttt ttccattttt gcctcccttt ttctttcttt      180
tgggtttatc tgaagtattt tcactttccg gcttgtgttg ggcgataaca tca          233

```

```

<210> 174
<211> 533
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (7)..(7)
<223> n = undefined nucleotide

```

```

<400> 174
ccctagntgc caccacacaa tcaaagtgga aaggccactc ctctaggtgc cccaagcaat      60
acaagcatta ctgcatcaaa gggagatgcc gcttcgtggt ggccgagcag acgccctcct      120
gtgtccctct ccggaacgt cgtaaaagaa agaagaaaga agaagaaatg gaaactctgg      180
gtaaagatat gactcctatc aatgaagata ttgaagagac aaatattgct tataaggcta      240
tgaagttacc tccaggttg gggcaagctg caaagtgcct tgctcatttg aaaatggaca      300
gaatgctgtc caggaaaaca gctagtagac atgaatttta aataatgtat ttacttttta      360
tttgcaactt cagtttgtgt tattattttt taataagaac attaattata tgtatattgt      420
ctagtaattg ggaaaaaagc aactggtag gtagcaacaa cagaaggga atttcaataa      480
cctttcactt aagtattgtc accaggatta ctagtcaaac aaaaaaaaaa aaa          533

```

```

<210> 175
<211> 689
<212> DNA
<213> Mus musculus

```

```

<220>
<221> misc_feature
<222> (671)..(671)
<223> n = any nucleotide

```

```

<400> 175
gcagattatt tgtttaccac ttagaacaca ggatgtcagc gccatcttgt aacgacgaat      60
gtgggggacg ctcccaacac ttcaccatgg ttttgacctt gtcatgacca gttattttct      120

```

```

ggcttatctc cactaatctt gggagcctca gcaccagccc tgagttcata tcacaccacc 180
aaagtctttg acctggaaga gctttaactt cctaagcctc ctgcttcac tgggcagcac 240
tggtacccgg agaatcctgt gtcccttgct tactccatcc tgttctgcag gtcttgcaat 300
tctccactgt gtggtagcag atgggaacac aaccagaaca ccagaaacca atggctctct 360
ttgtggagct cctggggaaa actgcacagg taccaccct agacagaaag tgaaaaccca 420
cttctctcgg tgccccaagc agtacaagca ttactgcac catgggagat gccgcttcgt 480
gggtggacgag caaactccct cctgcatggc ccggctcagc atctacttgt ggagaaactg 540
acgcagactt tcctcctgaa atctgaatat gagaaaccag gtccagttct gccctgctgg 600
tgtcccaact cccttggtgca agaaaaggcg attctaactg tgtaggatg ctcgatagtt 660
ccaatcatct nctgggtggt tcaatgaaa 689

```

<210> 176

<211> 1196

<212> DNA

<213> Cercopithecus aethiops (African green monkey)

<400> 176

```

gcccagcgga atctcttgag tcccaccgcc cagctccggt gccagcgccc agtggccgcc 60
gcttcgaaag tgactgggtg ctcgccgctt cctctcgggt cgggaccatg aagctgctgc 120
cgtcgggtgt gctgaagctc cttctggctg cagttctttc ggcactgggt actggcgaga 180
gcctggagca gcttcggaga gggccagctg ctggaaccag caaccggac cttccactg 240
gatctacgga ccagctgcta cgcctaggag gcggccggga ccggaagtc cgtgacttgc 300
aagaggcaga tctggacctt ttgagagtca ctttatctc caagccacaa gcactggcca 360
caccaagcaa ggaggagcac gggaaaagaa agaagaaagg caagggacta gggaagaaga 420
gggacccatg tcttcggaaa tacaaggact tctgcatcca cggagaatgc aaatatgtga 480
aggagctccg ggctccctcc tgcattggcag ctgggcagaa agatgttact tgatttgttt 540
ggtttgtcct gtgatgaaag aggcctggta gctcagcgtt cagaggccaa aggccagagc 600
tgccaccag gttaccatgg agagagggtg catgggctga gcctcccagt ggaaaatcgc 660
ttatatacct atgaccatac aactatcctg gctgtggtgg ccgtggtgct gtcctctgtc 720
tgtctgctgg tcatcgtggg gcttctcatg tttagggtacc ataggagagg tggttatgat 780
gtggaaaacg aagagaaagt gaagttgggc atgactaatt cccactgaga gacttgtgct 840
caaggaatca gctggtgact gctacctctg agaagacaca aggtgatttc agattgcaga 900
ggggaaagac gtcacatcta gccacaaaga ctccttcac cccagtcgcc atctaggatt 960
gggcctccca taattgcttt gccaaaatac cagagccttc aagtgccaaa ccgagtatgt 1020
ctgatagtat ctgggtgaga agaaagcaaa agcaaggagc cttcatgccc ttctgattcc 1080
cctccaccaa gcccacttc cccttataag tttgtttaag cactcacttc tggattagaa 1140
tgccggttaa attccatag ctccaggatc tttgactgaa aaaaaaaaaa aaaaaa 1196

```

<210> 177

<211> 564
 <212> DNA
 <213> Homo sapiens

<400> 177
 acgggggtccg agaaagttaa gcaactacag gaaatggctt tgggagttcc aatatcagtc 60
 tatcttttat tcaacgcaat gacagcactg accgaagagg cagccgtgac tgtaacacct 120
 ccaatcacag cccagcaagc tgacaacata gaaggaccca tagccttgaa gttctcacac 180
 ctttgcctgg aagatcataa cagttactgc atcaacggtg cttgtgcatt ccaccatgag 240
 ctagagaaag ccatctgcag gtgtctaaaa ttgaaatcgc cttacaatgt ctgttctgga 300
 gaaagacgac cactgtgagg cttttgtgaa gaattttcat caaggcatct gtagagatca 360
 agtgagccca aaattaaagt ttccagatga aacaacaaaa cttgtcaagc tgactagact 420
 cgaaaatatg gaaagttggg gatcacaatg aaatgagaag ataaaatcag cgggtggcct 480
 tagactttgc catctttaag gagtgatgga agccaagtga acaagcctca gtgacacaag 540
 tcaaattcat aggttcactc tggg 564

<210> 178
 <211> 387
 <212> DNA
 <213> Homo sapiens

<400> 178
 ggcacgaggg aggctctttg ttatagatgc ttttgcccc ttaatacagc aatgagagca 60
 ctgaccgaag aggcagccgt gactgtaaca cctccaatca cagcccagca agctgacaac 120
 atagaaggac ccatagcctt gaagtctca cacctttgcc tggaagatca taacagttac 180
 tgcataacg gtgcttgatg attccaccat gagctagaga aagccatctg cagggtgtcta 240
 aaattgaaat cgccttaca tgtctgttct ggagaaagac gaccactgtg aggcctttgt 300
 gaagaatttt catcaaggca tctgtagaga tcagttagcc caaaattaaa gttttcagat 360
 gaaacaacaa aacttgtcaa gctgact 387

<210> 179
 <211> 389
 <212> DNA
 <213> Homo sapiens

<400> 179
 ggcacgagga aagttaagca tctacaggtt atggctttgg gagttccaat atcagtctat 60
 cttttattca acgcaatgac agcactgacc gaagaggcag ccgtgactgt aacacctcca 120
 atcacagccc agcaaggtaa ctggacagtt aacaaaacag aagctgacaa catagaagga 180
 cccatagcct tgaagttctc acacctttgc ctggaagatc ataacagtta ctgcatcaac 240
 ggtgcttgat cattccacca tgagctagag aaagccatct gcagggtgtct aaaattgaaa 300
 tcgccttaca atgtctgttc tggagaaaga cgaccactgt gaagcctttg tgaagaattt 360
 tcatcaaggc atctgtagag atcagttag 389

<210> 180
 <211> 409

<212> DNA
 <213> Homo sapiens

<400> 180
 aactacagga aatggctttg ggagttccaa tatcagtcta tctttttattc aacgcaatga 60
 cagcactgac cgaagaggca gccgtgactg taacacctcc aatcacagcc cagcaagctg 120
 acaacataga aggaccata gccttgaagt tctcacacct ttgcctggaa gatcataaca 180
 gttactgcat caacggtgct tgtgcattcc accatgagct agagaaagcc atctgcaggt 240
 gtctaaaatt gaaatcgctt tacaatgtct gttctggaga aagacgacca ctgtgaggcc 300
 tttgtgaaga attttcatca aggcattctg tagagatcaa gtgagcccaa aattaaagtt 360
 ttcagatgaa acaacaaaac ttgtcaagct gactagactc gaaaatatg 409

<210> 181
 <211> 568
 <212> DNA
 <213> Homo sapiens

<400> 181
 ccgtcagtct agaaggataa gagaaagaaa gttaagcaac tacaggaaat ggctttggga 60
 gttccaatat cagtctatct tttattcaac gcaatgacag cactgaccga agaggcagcc 120
 gtgactgtaa cacctccaat cacagcccag caaggtaact ggacagttaa caaacagaa 180
 gctgacaaca tagaaggacc catagccttg aagttctcac acctttgcct ggaagatcat 240
 aacagttact gcatcaacgg tgcttgtgca ttccaccatg agctagagaa agccatctgc 300
 aggtgtctaa aattgaaatc gccttacaat gtctgttctg gagaaagacg accactgtga 360
 ggcctttgtg aagaattttc atcaaggcat ctgtagagat cagtgaagccc aaaattaaag 420
 ttttcagatg aaacaacaaa acttgtcaag ctgactagac tcgaaaataa tgaaagttag 480
 gatcacaaatg aaatgagaag ataaaattca gcgttggcct ttagactttg ccatccttaa 540
 ggagtgatgg aagccaagtg aacaagcc 568

<210> 182
 <211> 282
 <212> DNA
 <213> Homo sapiens

<400> 182
 atggctttgg gagttccaat atcagtctat cttttattca acgcaatgac agcactgacc 60
 gaagaggcag ccgtgactgt aacacctcca atcacagccc agcaagctga caacatagaa 120
 ggacccatag ccttgaagtt ctcacacctt tgcctggaag atcataacag ttactgcatc 180
 aacggtgctt gtgcattcca ccatgagcta gagaaagcca tctgcagggtg tctaaaattg 240
 aaatcgcctt acaatgtctg ttctggagaa agacgaccac tg 282

<210> 183
 <211> 32
 <212> PRT
 <213> Homo sapiens
 <400> 183

Asn Ser Asp Ser Glu Cys Pro Leu Ser His Asp Gly Tyr Cys Leu His
 1 5 10 15

Asp Gly Val Cys Met Tyr Ile Glu Ala Leu Asp Lys Tyr Ala Cys Lys
 20 25 30

<210> 184
 <211> 32
 <212> PRT
 <213> Homo sapiens

<400> 184

Gly His Ala Arg Lys Cys Asn Glu Thr Ala Lys Ser Tyr Cys Val Asn
 1 5 10 15

Gly Gly Val Cys Tyr Tyr Ile Glu Gly Ile Asn Gln Leu Ser Cys Lys
 20 25 30

<210> 185
 <211> 32
 <212> PRT
 <213> Homo sapiens

<400> 185

Asn Ser Tyr Pro Gly Cys Pro Ser Ser Tyr Asp Gly Tyr Cys Leu Asn
 1 5 10 15

Gly Gly Val Cys Met His Ile Glu Ser Leu Asp Ser Tyr Thr Cys Lys
 20 25 30